

February 16, 2024

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

Elvis Injection Line

Incident Number NAPP2213642290

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on December 28, 2022, and approved by NMOCD on January 24, 2023. This *Closure Request* documents assessment, excavation, and soil sampling activities performed at the Elvis Injection Line (Site) to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2213642290.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (32.820368°N, 103.789382°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 4, 2022, corrosion from an injection line resulted in the release of approximately 30.12 barrels (bbls) of produced water into the surrounding pasture. Approximately 1 bbl of released fluids was recovered. The previous operator, ConocoPhillips Company (COP), immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 4, 2022, and submitted a Release Notification Form C-141 (Form C-141) on May 16, 2022. The release was assigned Incident Number NAPP2213642290.

The previous operator, COP, sold the asset to Maverick on June 1, 2022. Field activities at the Site were postponed until the sale of the Site was complete.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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 desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

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



Depth to groundwater at the Site is estimated to be greater than 106 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater well/soil boring with depth to groundwater data is soil boring DTW 01, located approximately 0.26 miles south of the Site. The soil boring was drilled during August 2023 to a depth of 106 feet bgs. A field geologist logged and described soil continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 106 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from 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: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SUMMARY OF DELINEATION ACTIVITIES

Potholes PH01 through PH05 were advanced within the release extent to depths ranging from 4 feet to 14 feet bgs. Discrete delineation soil samples were collected from the potholes at depths ranging from 1-foot to 14 feet bgs. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Pothole PH03 was re-advanced on January 8, 2024, at the location of the original October 19, 2022, PH03 pothole location to complete additional delineation activities. No chloride impacted soil was identified at the location of pothole PH03 during January 2024.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05, were compliant with the Site Closure Criteria and provided vertical delineation to below the most stringent Table 1 Closure Criteria. However, laboratory analytical results and/or field screening results indicated chloride concentrations exceeded the reclamation requirement in the top four feet of the pasture release area. Laboratory analytical results are summarized on the attached Table 1.



Based on the delineation activities, a *Work Plan* was submitted to the NMOCD on December 28, 2022, proposing excavation of chloride impacted soil in the top four feet of the pasture release extent and installation of a soil boring to confirm depth to water within 0.5 miles of the Site. The NMOCD approved the *Work Plan* with no conditions on January 24, 2023. Additional details regarding the delineation activities can be referenced in the December 28, 2022, *Work Plan*.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between December 7, 2023, and January 8, 2024, Ensolum personnel were at the Site to oversee excavation of chloride impacted soil, as outlined in the approved *Work Plan*. To direct excavation activities, soil was field screened for chloride using Hach® chloride QuanTab® test strips. Excavation activities were performed using hand shovels, hydrovac, backhoe, loader, and transport vehicles. The excavation was completed to a depth of 4 feet bgs.

Following removal of impacted soil, 5-point composite samples were collected every 200 square feet from the 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 soil samples SW01 through SW16 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. Based on the approved *Work Plan* and delineation soil sample analytical results, no floor samples were required, and sidewall samples required analysis of chloride only. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities. A photographic log is included as Appendix C.

Assessment soil samples SS01 through SS25 were collected within and around the excavation and/or release extent to confirm the extent of the surface release. The assessment soil samples were collected at depths ranging from 0.5 feet to 1-foot bgs. The assessment soil samples sample locations were mapped utilizing a handheld GPS and are presented on Figure 2 and Figure 3.

The excavation and assessment 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 Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride following Standard Method SM 4500.

The excavation measured approximately 6,000 square feet in areal extent. A total of approximately 1,500 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico.

Laboratory analytical results for excavation sidewall samples SW01 through SW16 indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements for the top four feet of the pasture area. Laboratory analytical results for assessment soil samples SS01 through SS25 indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final soil sample analytical results, Maverick proceeded with reclamation of the disturbed pasture area. The excavation was backfilled with locally procured soil and the Site was recontoured to match pre-existing conditions. The disturbed pasture area



was seeded with a BLM approved seed mixture. Photographs of the reclaimed area are included in Appendix C.

Laboratory analytical results for assessment soil samples SS02 and SS04, collected on the active pad at a depth of 0.5 feet bgs, indicated chloride concentrations exceeded the reclamation requirement at concentrations of 880 mg/kg and 1,100 mg/kg, respectively. Subsequent soil samples collected at 1-foot bgs from the SS02 and SS04 sample locations provided vertical delineation to below the reclamation requirement. The soil exceeding reclamation requirements in the top four of the active pad will be addressed during final abandonment of the injection facility.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 4, 2022, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on excavation and soil sampling activities completed as outlined in the approved *Work Plan*, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2213642290.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely, **Ensolum, LLC**

Ronni Hayes Staff Scientist

Run Huse

Aimee Cole Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources, LLC

Bureau of Land Management

Appendices:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Page 4



Appendix B Lithologic / Soil Sampling Logs

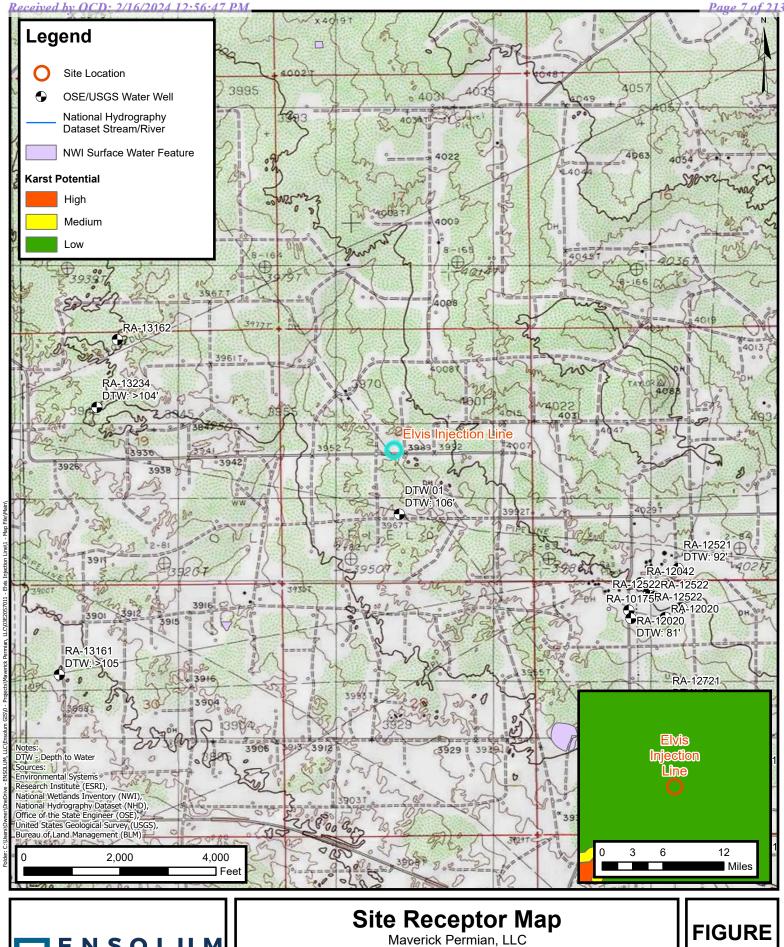
Appendix C Photographic Log

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

Appendix E NMOCD Notifications



FIGURES

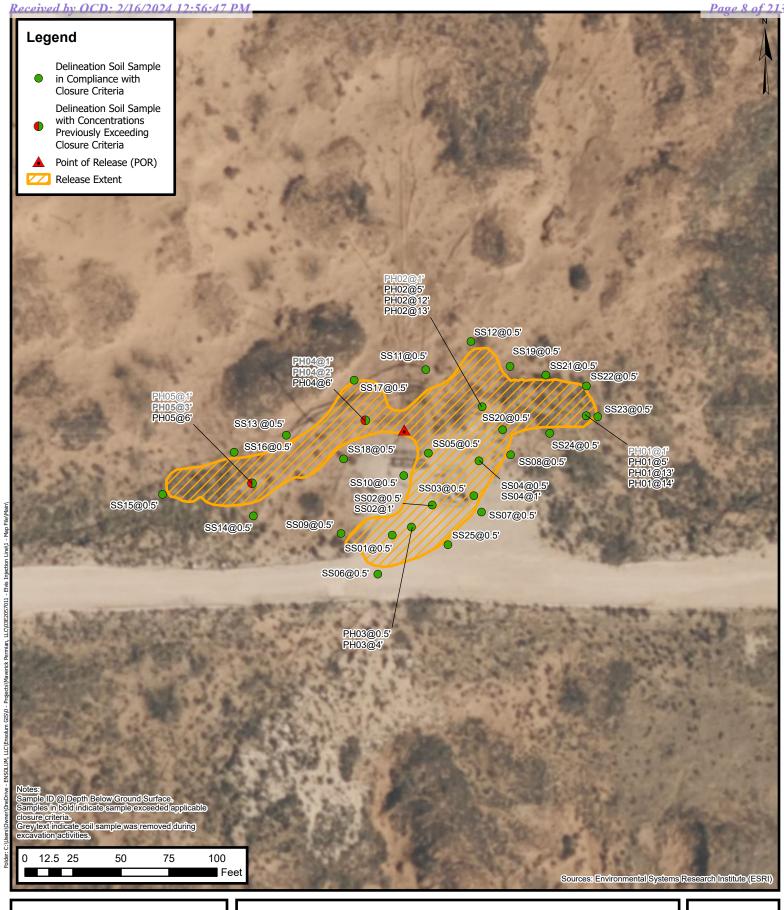




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Maverick Permian, LLC
Elvis Injection Line
Incident Number: NAPP2213642290
Unit F Sec 20 T17S R32E
Lea County, New Mexico

FIGURE 1

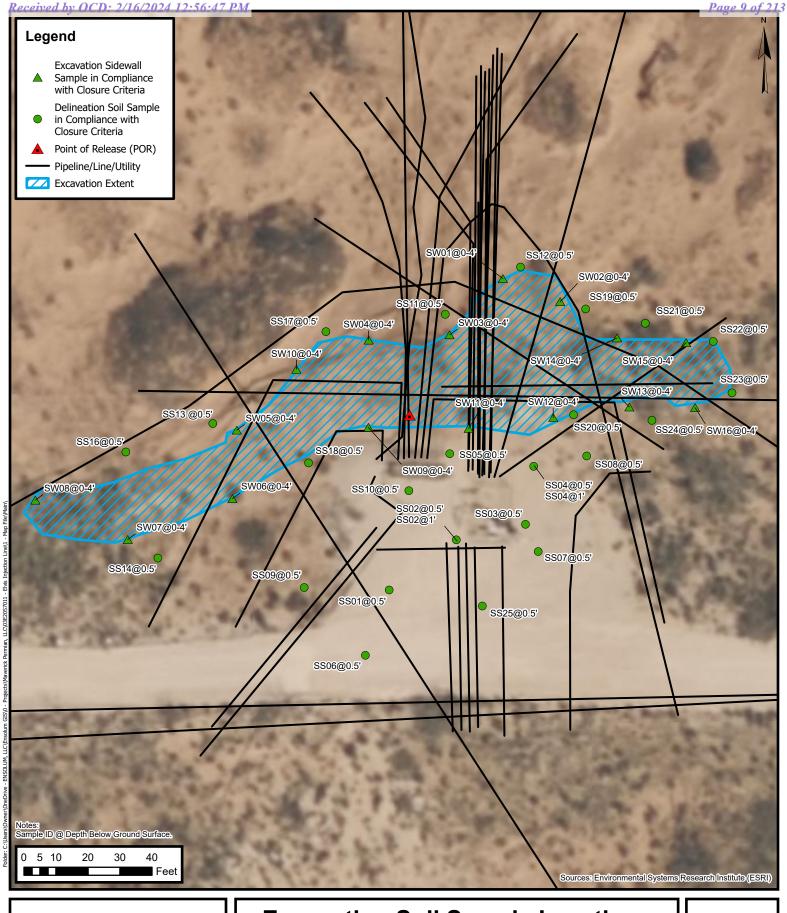




Delineation Soil Sample Locations

Maverick Permian, LLC
Elvis Injection Line
Incident Number: NAPP2213642290
Unit F Sec 20 T17S R32E
Lea County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

Maverick Permian, LLC
Elvis Injection Line
Incident Number: NAPP2213642290
Unit F Sec 20 T17S R32E
Lea County, New Mexico

FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Elvis Injection Line

					averick Permian, County, New Me					
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	ole I Closure Criter 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil San	nples				
PH01*	10/19/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	242
PH01	10/19/2022	5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	6,410
PH01	10/19/2022	13	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	787
PH01	01/08/2024	14	NA	NA	NA	NA	NA	NA	NA	176
PH02*	10/19/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	165
PH02	10/19/2022	5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	8,760
PH02	10/19/2022	12	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,120
PH02	01/05/2024	13	NA	NA	NA	NA	NA	NA	NA	48.0
PH03	01/08/2024	0.5	NA	NA	NA	NA	NA	NA	NA	576
PH03	01/08/2024	4	NA	NA	NA	NA	NA	NA	NA	304
PH04*	10/19/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,020
PH04*	10/19/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,560
PH04	10/19/2022	6	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	162
PH05*	10/19/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	403
PH05*	10/19/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,530
PH05	10/19/2022	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	431
				Excavati	ion Sidewall Soil	Samples				
SW01*	12/7/2023	0-4	NA	NA	NA	NA	NA	NA	NA	48.0
SW02*	12/7/2023	0-4	NA	NA	NA	NA	NA	NA	NA	32.0
SW03*	12/12/2023	0-4	NA	NA	NA	NA	NA	NA	NA	16.0
SW04*	12/12/2023	0-4	NA	NA	NA	NA	NA	NA	NA	160
SW05*	12/14/2023	0-4	NA	NA	NA	NA	NA	NA	NA	<16.0
SW06*	12/14/2023	0-4	NA	NA	NA	NA	NA	NA	NA	144
SW07*	12/15/2023	0-4	NA	NA	NA	NA	NA	NA	NA	272



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Elvis Injection Line Maverick Permian, LLC Lea County, New Mexico

				Lea	County, New Me	xico				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
SW08*	12/18/2023	0-4	NA	NA	NA	NA	NA	NA	NA	32.0
SW09*	12/20/2023	0-4	NA	NA	NA	NA	NA	NA	NA	32.0
SW10*	12/22/2023	0-4	NA	NA	NA	NA	NA	NA	NA	32.0
SW11*	1/4/2024	0-4	NA	NA	NA	NA	NA	NA	NA	48.0
SW12*	1/5/2024	0-4	NA	NA	NA	NA	NA	NA	NA	352
SW13*	1/5/2024	0-4	NA	NA	NA	NA	NA	NA	NA	144
SW14*	1/5/2024	0-4	NA	NA	NA	NA	NA	NA	NA	272
SW15*	1/8/2024	0-4	NA	NA	NA	NA	NA	NA	NA	64.0
SW16*	1/8/2024	0-4	NA	NA	NA	NA	NA	NA	NA	176
				Asse	essment Soil San	nples				
SS01	12/12/2023	0.5	NA	NA	NA	NA	NA	NA	NA	48.0
SS02	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	880
SS02	1/4/2023	1	NA	NA	NA	NA	NA	NA	NA	240
SS03	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	144
SS04	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	1,100
SS04	1/4/2024	1	NA	NA	NA	NA	NA	NA	NA	96
SS05	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	128
SS06	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	32.0
SS07	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	176
SS08	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	96.0
SS09*	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	32.0
SS10	12/13/2023	0.5	NA	NA	NA	NA	NA	NA	NA	48.0
SS11*	12/18/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS12*	12/18/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS13*	12/18/2023	0.5	NA	NA	NA	NA	NA	NA	NA	64.0



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Elvis Injection Line Maverick Permian, LLC Lea County, New Mexico

Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS14*	12/18/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS15*	12/18/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS16*	12/21/2023	0.5	NA	NA	NA	NA	NA	NA	NA	32.0
SS17*	12/21/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS18*	12/21/2023	0.5	NA	NA	NA	NA	NA	NA	NA	16.0
SS19*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	32.0
SS20*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	48.0
SS21*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	<16.0
SS22*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	<16.0
SS23*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	32.0
SS24*	1/4/2024	0.5	NA	NA	NA	NA	NA	NA	NA	64.0
SS25	1/8/2024	0.5	NA	NA	NA	NA	NA	NA	NA	48.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records

								Sample Name: DTW 01	Date: 08/28/2023
			NI	C	OL			Site Name: MCA 266	
						- 0		Incident Number: NAPP22136422	190
								Job Number: 03D2057011	
		LITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Julianna Falcomata	Method: Hollow Stem
								Hole Diameter: 5"	Total Depth: 106'
Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 09/08/2023 the soil boring was plugged and abandoned using hydrated bentonite chips.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
Dry	-	-	N	-		I - 10 -	SP-SM	(10') SAND: fine grained silt	
Dry	-	-	N	-	- - -	_ _ 20 _	SP-SM	no odor. (20') SAND: fine grained sill small gravel, poorly graded	, tan to reddish brown,
Dry	-	-	N	-		- - 30 -	SP-SM	non plastic, non cohesive, r (30') SAND: fine grained silt amounts small to medium preddish brown, non plastic,	ry sand, moderate gravel, poorly graded,

40 SP-SM (40') SAND: SAA with trace amounts of CHT like Dry material SP-SM (50') SAND: fine grained silty sand, trace amounts 50 Dry Ν small gravel, poorly graded, reddish brown, non plastic, non cohesive, no odor. (60') SAND: fine grained silty sand, trace amounts SP-SM 60 Dry Ν small gravel, poorly graded, medium brown, non plastic, non cohesive, no odor. SP-SM (70') SAND: fine grained silty sand, trace amounts 70 Dry N small gravel, poorly graded, medium brown to dark grey, non plastic, non cohesive, no odor. GP-GM (80') GRAVEL: medium grained, trace amount silty 80 Dry N sand, poorly graded, dark grey to light grey, non plastic, non cohesive, no odor. GP-GM (90') GRAVEL: medium grained, trace amount silty 90 Dry N sand, poorly graded, light grey to medium brown, non plastic, non cohesive, no odor. SP-SM (100') SAND: fine grained, trace amount small to 100 Dry Ν medium gravel, poorly graded, medium brown, non plastic, non cohesive, no odor. SP-SM (106') SAND: fine grained, trace amount small to 106 Dry N medium gravel, poorly graded, dark brown, non plastic, non cohesive, no odor. Total Depth @ 106 feet bgs



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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ER	(FROM G	PS)	LONG	_{ITUDE} 103	46	24.4	·w	DATUM RE	QUIRED: WGS 84			
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	LICENSE N		- 1	NAME OF LICENSED	DRILLER				NAME OF WELL DR			
	WD-1456)		John W. White					White Drilling (omp	any, Inc.	
	9/24/201		- 1	DRILLING ENDED 25/2013	DEPTH OF COMPLET 120.0	TED WELL (FT)	BORE HO	LE DEPTH (FT)	B1.5	ST ENC	OUNTERED (FT)	
		_					<u> </u>		STATIC WATER LEV	EL IN C	COMPLETED WE	LL (FT)
N.	COMPLETE	D WELL I	is: (- ARTESIAN	(DRY HOLE (SHALLOW (UNC	ONFINED)		81.5			
ATIC.	DRILLING I	LUID:	C	AIR	C MUD	ADDITIVES - SPI	ECIFY:					
RM	DRILLING !	METHOD:	(ROTARY	C HAMMER (CABLE TOOL	С отне	R - SPECIFY:				
NFO	DEPTH	(feet bgl	l)	BORE HOLE	CASING MATI	ERIAL AND/OR	6.	CINC	CASING	CAS	SING WALL	or
DRILLING & CASING INFORMATION	FROM	то)	DIAM (inches)	(include each c	ADE asing string, and ns of screen)	CON	ASING NECTION TYPE			HCKNESS (inches)	SLOT SIZE (inches)
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ANNULAR MATERIAL	120.0	110.0)	6.0	Bentonite gro	ut			3 sacks		Hand Mix	
Ž	110.0	71.0		6.0	8/16 Sand	 			14 sacks		Hand Mix	
A.R.	71.0	19.0		6.0	Bentonite Pell	lets 			19 sacks		Hand Mix	
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	OSE INTER	NAL US	SE						WELL RECORD	& LOG	(Version 06/0	3/2012)
	NUMBER		八	1,130	9 0 ′	POD NUMBER			NUMBER 53	432	28	
LOC	CATION	$\vdash X$	$\mathcal{P}_{\mathbf{I}}$	-(mon	· Well)		<u>175.</u>	32E.7	8.122		PAGE	1 OF 2

		<u> </u>	<u> </u>	TA TA		
	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -		ESTIMATED
	:		THICKNESS	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE	WATER BEARING?	YIELD FOR WATER-
	FROM	то	(feet)	(attach supplemental sheets to fully describe all units)	(YES / NO)	BEARING
	0.0	4.0	4.0	Reddish brown sand		ZONES (gpm)
	4.0	8.0	4.0		CYEN	
	8.0	11.0	3.0	Reddish sandy clay Caliche	C A © M	
		ļ			CY C N	
	11.0	20.0	9.0	Reddish sand/sandstone	C. A. © N	
	20.0	28.0	8.0	Light brown sand w/gravel mixed	C: Y G: N	
1	28.0	34.0	6.0	Brown sand	CAGN	
≪E	34.0	42.0	8.0	Reddish brown sand/sandstone	CAGN	i
9	42.0	53.0	11.0	Dark brown sandstone	CY € N	
07	53.0	58.0	5.0	Grayish brown sandstone	OY ® N	
25	58.0	70.0	12.0	Yellowish brown sandstone	CY 6; N	
Po	70.0	111.0	41.0	Layers of brown, grennish, and reddish sand/sandstone	● Y C N	,
4. HYDROGEOLOGIC LOG OF WELL	111.0	120.0	9.0	Dark reddish brown silty clayey shale	© Y C N	
ROC					CY CN	
HYD					CY CN	
-					CYCN	
					$C^{Y}C^{N}$	·
	<u> </u>				CYCN	
					CYON	
	_				C Y C N	
					C	
					C Y C N	
;	METHOD U	JSED TO ES	I STIMATE YIELD	OF WATER-BEARING STRATA: C; PUMP	TOTAL ESTIMATED	
	C. AIR LIF			OTHER - SPECIFY:	WELL YIELD (gpm):	
	C. AIR CIF		DAILER (,	OTHER - SPECIFT.		;
ION	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV		
SIC	MISCELLA	NEOUS IN	FORMATION:			
ERV			· Ottom · · · · · · · · ·		•	i
SUP						
Sign !						
1 11 1						
S. TEST; RIG SUPERVIS			RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ISTRUCTION OTHER TI	IAN LICENSÉE:
, r.c.	William B	. Atkins				
	THE UNDF	RSIGNED I	IEREBY CERTII	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL	EF, THE FOREGOING IS	A TRUE AND
32	CORRECT	RECORD O	F THE ABOVE D	DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R TO DAYS AFTER COMPLETION OF WELL DRILLING:		
UTV	ANDINE	-ERIVITI FIU	LUER WITHIN	DATE AFTER COMPLETION OF WELL DRILLING:	· •	
SIGNATURE			フル	/	10-1-13	
6. 51			///<			
		SIGNAT	UKE OF DRILLE	ER / PRINT SIGNEE NAME	DATE	
FOI	R OSE INTER	NAL USF		WR.20 WF	LL RECORD & LOG (Ve	rsion 06/08/20121
	CAULANCE			TOO MILLIANCE TO TOO ME		.5.01.00/00/4014)

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

LOCATION



APPENDIX B

Lithologic Soil Sampling Logs

	Sample Name: PH01 Date: 1/8/24		
ENSOLUM	Site Name: Elvis Injection Line		
	Incident Number: NAPP221364229	0	
	Job Number: 03D2057011		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ronni Hayes	Method: Backhoe	
Coordinates: 32.8204559, -103.7890876	Hole Diameter: 3'	Total Depth: 14'	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

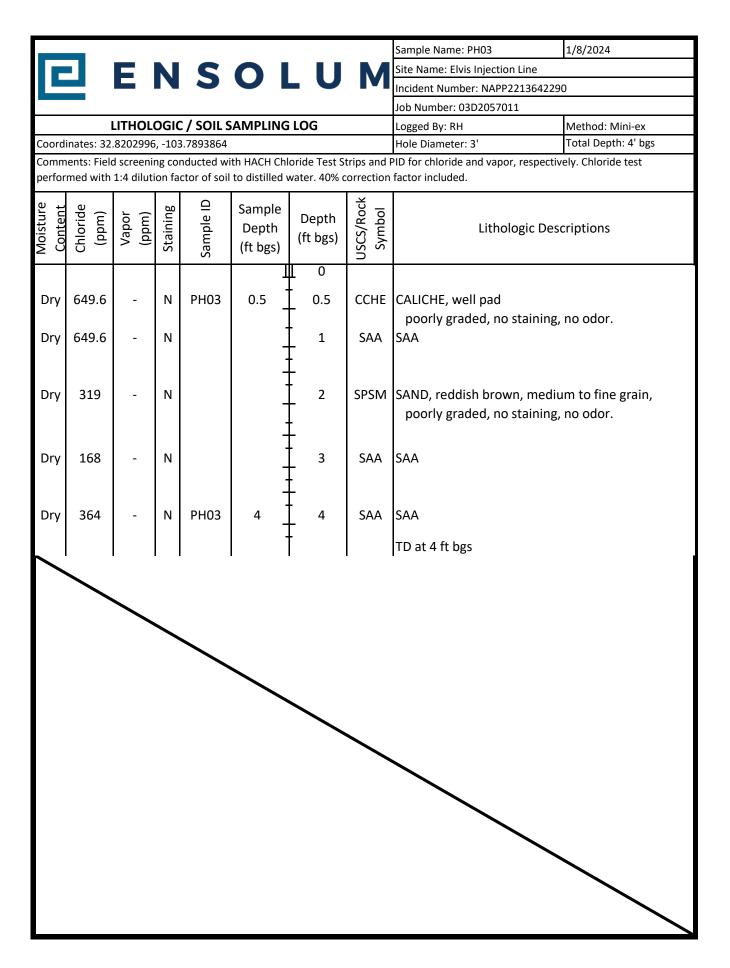
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth	Depth	USCS/Rock Symbol	Lithologic Descriptions
Mo	Chl (p	V. (p	Sta	Sam	(ft bgs)	(ft bgs)	USC	
					1	0		
D	207	0.0	N	PH01	1 -	1	SPSM	SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor.
D	1,646	0.2	N		-	2	SPSM	SAA
D	1,646	0.4	N		-	- - - 3	SPSM	SAA
D	1,316	0.5	N		-	4	SPSM	SAA
D	1,290	0.2	N	PH01A	5 _	- - - 5	SPSM	SAA
D	3,589	0.5	N		-	_ 6	SPSM	SAA
D			N		- - -	7	SPSM	SAA
D			N		-	8	SPSM	SAA
D	10,046	0.2	N		-	- - 9	SPSM	SAA
D			N		-	10	SPSM	SAA
D			N		-	- - 11	SPSM	SAA, more clay
D	526	0.1	N		- -	12	SPSC	SAA, some plant matter
D	526	0.1	N	PH01B	13	13	SPSC	SAA, more clay, no plant matter
D	201.6		N	PH01	14	14	SPSC	

TD @ 14 FEET BGS

	Sample Name: PH02 Date: 1/5/24			
ENSOLUM	Site Name: Elvis Injection Line			
E I 3 O L O M	Incident Number: NAPP221364229	0		
	Job Number: 03D2057011			
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ronni Hayes	Method: Hand Auger		
Coordinates: 32.8204706, -103.7892647	Hole Diameter: 4"	Total Depth: 13' bgs		
Commants: Field screening conducted with HACH Chloride Test String and	DID for chlorida and vanor respectiv	volv. Chlorido tost		

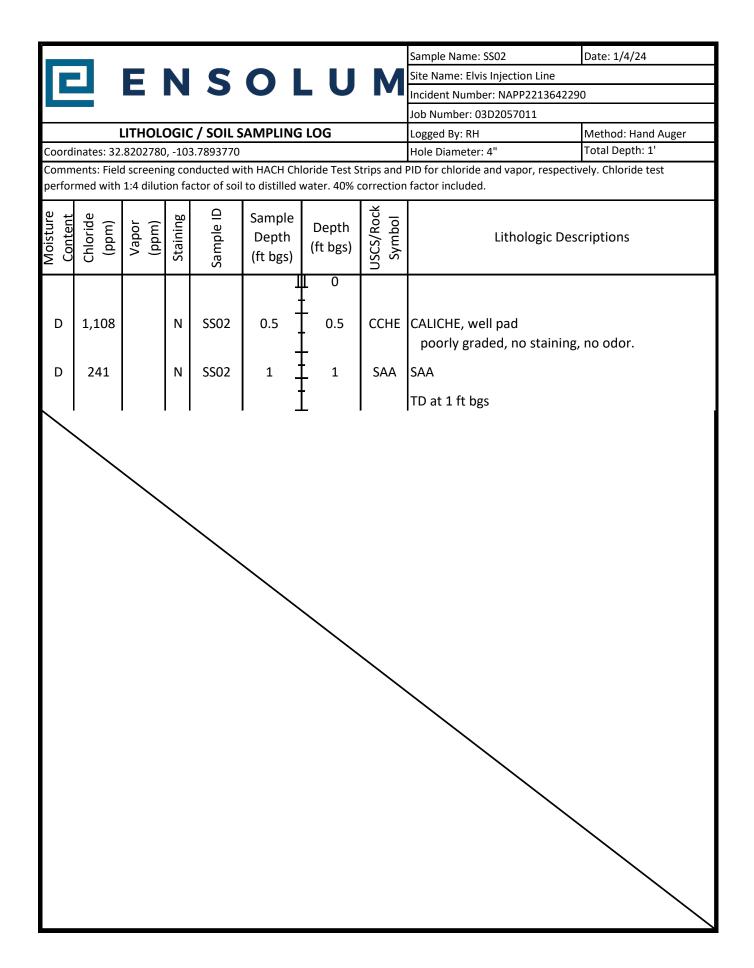
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

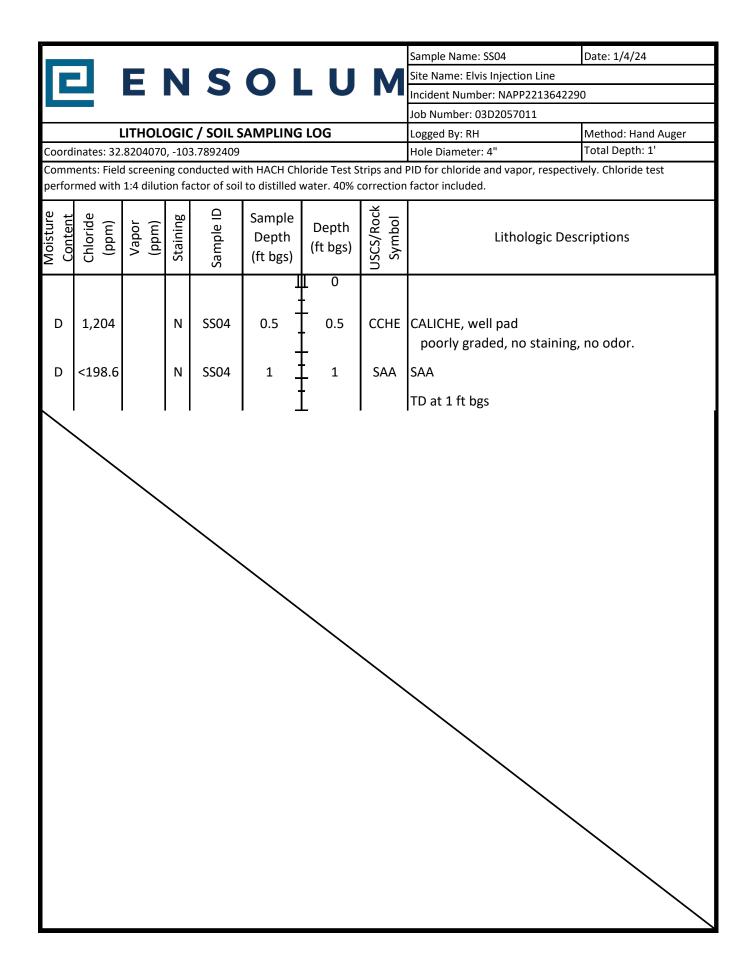
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
D	207	0.2	N	PH02	1 -	1	SPSM	SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor.
D	280	0.2	N		-	2	SPSM	SAA
D	1,036	0.4	N		-	- - - 3	SPSM	SAA
D	1,316	0.4	N		-	4	SPSM	SAA
D	9,290	0.5	N	PH02A	5 -	5	SPSM	SAA
D	7,341	0.5	N		-	6	SPSM	SAA, more clay
D	4,860	0.9	N		-	7	SPSM	SAA
D	7,341	0.3	N		-	8	CCHE	CALICHE
D			N		- - -	- - 9	ССНЕ	SAA
D			N		-	10	CCHE	SAA
D	1,215	0.1	N		-	11	ССНЕ	SAA
D	1,215	0.1	N	PH02B	12	12	CCHE	SAA
D	<198.6		N	PH02	13	13	ССНЕ	
								TD at 13 ft bgs



								Comple Name: DUO4	Data: 10/10/2022	
								Sample Name: PH04 Site Name: Elvis Injection Line	Date: 10/19/2022	
		E	N	S	OL	_ U	M	Incident Number: NAPP2213		
			_	_				Job Number: 03D2057011	U+42JU	
		ITHOL	OGI(· / sou s	AMPLING	106		Logged By: CS/PV Method: Hand Auger		
Coordi				3.7894618	AIVIPLING	LOG		Hole Diameter: 4"	Total Depth: 10'	
					th HACH Ch	oride Test S	trins and I	PID for chloride and vapor, res	· · · · · · · · · · · · · · · · · · ·	
			_				•	tion factor included.	pecture, y. c.mo.ruc	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	: Descriptions	
					1	<u> </u>				
D	2,329	0.3	N	PH04	1 -	1	SPSM	SAND, reddish brown, n poorly graded, no stai		
D	1,764	0.3	Ν	PH04A	2	_ 2	SPSM	SAA		
D	789	0.4	N		- - -	- 3	SPSM	SAA		
D	1,892	0.2	N		- - -	- - - 4	SPSM	SAA		
D			N		_ - -	_ _ 5 _	SPSM	SAA		
D	<168	0.3	N	PH04B	6 _	- _ 6 -	SPSM	SAA		
D			N		- - -	- - -	SPSM	SAA		
D	<168	0.5	Ν		_	8	CCHE	CALICHE with sand.		
D			N		- - -	9	ССНЕ	SAA		
D	<168	0.1	N		- - -	10	ССНЕ	SAA		
						TD @	10 FEET	I BGS		
						0	- · ·	-		
			\							

								Cample Name: DUOF	Data: 10/10/2022	
	-							Sample Name: PH05	Date: 10/19/2022	
			N	S	OL	U	M	Site Name: Elvis Injection Line Incident Number: NAPP2213		
			_	_	_			Job Number: 03D2057011	U+223U	
		ITHOL	OGIO	· / sou s	AMPLING	106		Logged By: CS/PV Method: Hand Auger		
Coordi				3.7896556	AIVIF LING	100		Hole Diameter: 4"	Total Depth: 10'	
					th HACH Chl	oride Test S	trins and I	PID for chloride and vapor, res	· ·	
			_					tion factor included.	, podure, yr dinanae	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	: Descriptions	
					1	0				
D	414	0.2	N	PH05	1 -	- 1	SPSM	SAND, reddish brown, r poorly graded, no stai	medium to fine grain, ining, no odor.	
D	280	0.3	Ν		_	_ 2	SPSM	SAA		
D	5,756	0.3	N	PH05A	3	- - - 3	SPSM	SAA		
D	929	0.3	N		- - -	4 4	SPSM	SAA		
D			N		- - -	_ _ 5 _	SPSM	SAA		
D	526	0.3	N	PH05B	6 _	_ 6 	SPSM SPSM			
D D	856	0.3	N		- - -	7 - - 8	SPSM			
D			N		- - -	- - - 9	SPSM	SAA		
D	364	0.6	N	PH05C	10	- _ 10	SPSM	SAA		
						TD @	10 FEET	BGS		
						0	- · ·	-		
			\							
İ										







APPENDIX C

Photographic Log



Photographic Log

Maverick Permian, LLC
Elvis Injection Line
Incident Number NAPP2213642290





Photograph: 1 Date: 5/5/2022

Description: Soil staining in release footprint

View: Northwest

Photograph: 2 Date: 10/19/2022

Description: Delineation Activities

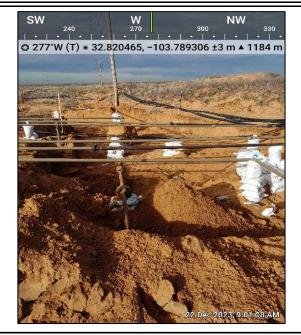
View: East



Photograph: 3 Date: 12/13/2023

Description: Excavation activities

View: Northwest



Photograph: 4 Date: 12/22/2023

Description: Excavation activities

View: West

E ENSOLUM

Photographic Log

Maverick Permian, LLC
Elvis Injection Line
Incident Number NAPP2213642290



Photograph: 5 Date: 1/5/2024

Description: Excavation activities

View: West



Photograph: 6 Date: 1/8/2024

Description: Excavation activities

View: North



Photograph: 7 Date: 1/12/2024

Description: Backfilled excavation

View: Northwest

Photograph: 8 Date: 1/12/2024

Description: Backfilled excavation

View: North



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3238-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elivis Injection Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MAMER

Authorized for release by: 10/26/2022 9:08:04 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

····· Links ·····

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 4/10/2024 3:09:51 PM

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

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

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Client: Ensolum
Project/Site: Elivis Injection Line

Laboratory Job ID: 890-3238-1
SDG: 03D2057011

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QC Association Summary	13
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Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
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Definitions/Glossary

Job ID: 890-3238-1 Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

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

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-3238-1 Project/Site: Elivis Injection Line SDG: 03D2057011

Job ID: 890-3238-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3238-1

Receipt

The samples were received on 10/20/2022 9:38 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 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH04 (890-3238-1), PH04 (890-3238-2) and PH04 (890-3238-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37510 and analytical batch 880-37597 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Job ID: 890-3238-1
Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH04

Date Collected: 10/19/22 10:00

Lab Sample ID: 890-3238-1

Matrix: Solid

Date Collected: 10/19/22 10:00
Date Received: 10/20/22 09:38

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 04:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			10/24/22 13:20	10/26/22 04:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130			10/24/22 13:20	10/26/22 04:42	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/26/22 09:33	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/24/22 12:22	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
						•	Analyzou	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 03:27	Dil Fac
	<49.9 <49.9	_	49.9	mg/Kg		10/21/22 13:46 10/21/22 13:46		1
(GRO)-C6-C10 Diesel Range Organics (Over		U					10/22/22 03:27	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U U	49.9	mg/Kg		10/21/22 13:46	10/22/22 03:27	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.9 <49.9	U U	49.9 49.9	mg/Kg		10/21/22 13:46 10/21/22 13:46	10/22/22 03:27 10/22/22 03:27 10/22/22 03:27	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 %Recovery	U U	49.9 49.9 <i>Limits</i>	mg/Kg		10/21/22 13:46 10/21/22 13:46 Prepared	10/22/22 03:27 10/22/22 03:27 10/22/22 03:27 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 	U U Qualifier	49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg		10/21/22 13:46 10/21/22 13:46 Prepared 10/21/22 13:46	10/22/22 03:27 10/22/22 03:27 10/22/22 03:27 Analyzed 10/22/22 03:27	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 **Recovery 75 86 5, lon Chromato	U U Qualifier	49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg		10/21/22 13:46 10/21/22 13:46 Prepared 10/21/22 13:46	10/22/22 03:27 10/22/22 03:27 10/22/22 03:27 Analyzed 10/22/22 03:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: PH04 Lab Sample ID: 890-3238-2

Date Collected: 10/19/22 10:15 Date Received: 10/20/22 09:38

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/24/22 13:20	10/26/22 05:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/24/22 13:20	10/26/22 05:03	1

Eurofins Carlsbad

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Matrix: Solid

Job ID: 890-3238-1

Client: Ensolum SDG: 03D2057011 Project/Site: Elivis Injection Line

Client Sample ID: PH04 Lab Sample ID: 890-3238-2

Date Collected: 10/19/22 10:15 **Matrix: Solid** Date Received: 10/20/22 09:38

Sample Depth: 2

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	
moundar official solutions	Tolutio Organic	- Compounds	,	(Continuou,	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	99	70 130	10/24/22 13:20	10/26/22 05:03	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			10/26/22 09:33	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			10/24/22 12:22	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		10/21/22 13:46	10/22/22 03:49	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 03:49	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 03:49	1
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	10/21/22 13:46	10/22/22 03:49	1
o-Terphenyl	105		70 - 130	10/21/22 13:46	10/22/22 03:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560	24.8	mg/Kg			10/23/22 18:04	5

Lab Sample ID: 890-3238-3 Client Sample ID: PH04

Date Collected: 10/19/22 10:30 Date Received: 10/20/22 09:38

Sample Depth: 6

ı	Method: SW846 8021B	Maladila Ossasia	O = === = = = = = (OO)

mothod. Offoro COLID Tolat	no Organio Comp	ounas (SS)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/24/22 13:20	10/26/22 05:23	1
1.4 Diffuorobenzene (Surr)	oo.		70 120			10/24/22 12:20	10/26/22 05:22	1

4-Bromotiuoropenzene (Surr)	95	70 - 130	10/24/22 13:20 10/26/22 05:23	7
1,4-Difluorobenzene (Surr)	99	70 - 130	10/24/22 13:20 10/26/22 05:23	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		_	10/26/22 09:33	1

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

Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		_	10/24/22 12:22	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3238-3

Analyzed

10/23/22 18:09

Client Sample Results

Client: Ensolum Job ID: 890-3238-1
Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH04

Date Collected: 10/19/22 10:30 Date Received: 10/20/22 09:38

Sample Depth: 6

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			10/21/22 13:46	10/22/22 04:11	1
o-Terphenyl	99		70 - 130			10/21/22 13:46	10/22/22 04:11	1

RL

5.00

Unit

mg/Kg

D

Prepared

Result Qualifier

162

Dil Fac

13

14

Surrogate Summary

Client: Ensolum

Project/Site: Elivis Injection Line

Job ID: 890-3238-1

SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20579-A-11-C MS	Matrix Spike	89	99	
380-20579-A-11-D MSD	Matrix Spike Duplicate	97	105	
890-3238-1	PH04	115	92	
390-3238-2	PH04	101	99	
390-3238-3	PH04	95	99	
LCS 880-37678/1-A	Lab Control Sample	92	101	
_CSD 880-37678/2-A	Lab Control Sample Dup	94	96	
MB 880-37517/5-A	Method Blank	109	105	
MB 880-37678/5-A	Method Blank	108	106	
Surrogate Legend				

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)	
890-3237-A-1-B MS	Matrix Spike	84	91	
890-3237-A-1-C MSD	Matrix Spike Duplicate	83	89	
890-3238-1	PH04	75	86	
890-3238-2	PH04	94	105	
890-3238-3	PH04	83	99	
LCS 880-37501/2-A	Lab Control Sample	97	120	
LCSD 880-37501/3-A	Lab Control Sample Dup	96	116	
MB 880-37501/1-A	Method Blank	90	108	

Surrogate Legenu

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3238-1 SDG: 03D2057011 Project/Site: Elivis Injection Line

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37517/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37517

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	10/21/22 14:22	10/25/22 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/21/22 14:22	10/25/22 11:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/21/22 14:22	10/25/22 11:26	1

Lab Sample ID: MB 880-37678/5-A

Matrix: Solid

Analysis Batch: 37728

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

Prep Batch: 37678

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/24/22 13:20	10/25/22 23:00	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/24/22 13:20	10/25/22 23:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/24/22 13:20	10/25/22 23:00	1

Lab Sample ID: LCS 880-37678/1-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 37678

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.09437		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1930		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 _ 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-37678/2-A

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Matrix: Solid

Analysis Batch: 37728

Client Sample ID:	Lab Control Sample Dup
	Duny Towns Total/NIA

Prep Type: Total/NA

Prep Batch: 37678

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09898		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Ensolum Job ID: 890-3238-1 Project/Site: Elivis Injection Line SDG: 03D2057011

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid Analysis Batch: 37728 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 37678

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1070 70 - 130 35 mg/Kg 107 Ethylbenzene 0.100 0.09688 mg/Kg 97 70 - 130 3 35 0.200 m-Xylene & p-Xylene 0.1994 mg/Kg 70 - 130 35 100 3 o-Xylene 0.100 0.1064 mg/Kg 106 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-20579-A-11-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 37728

Prep Type: Total/NA

Prep Batch: 37678

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0998 <0.00200 U F1 F2 0.1091 mg/Kg 109 70 - 130 Toluene <0.00200 UF1F2 0.0998 0.1041 104 70 - 130 mg/Kg Ethylbenzene 0.0998 0.07417 70 - 130 <0.00200 U F1 F2 mg/Kg 74 <0.00401 U F1 F2 0.200 0.1392 70 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 UF1F2 0.0998 0.08216 mg/Kg 82 70 - 130

MS MS

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

Lab Sample ID: 880-20579-A-11-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 37728

Prep Type: Total/NA Prep Batch: 37678

	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	0.101	0.002336	F1 F2	mg/Kg		2	70 - 130	192	35
Toluene	<0.00200	U F1 F2	0.101	0.004596	F1 F2	mg/Kg		5	70 - 130	183	35
Ethylbenzene	<0.00200	U F1 F2	0.101	0.004565	F1 F2	mg/Kg		5	70 - 130	177	35
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.201	0.01034	F1 F2	mg/Kg		5	70 - 130	172	35
o-Xylene	<0.00200	U F1 F2	0.101	0.005707	F1 F2	mg/Kg		6	70 - 130	174	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-37501/1-A

Matrix: Solid

Analysis Batch: 37440

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

Prep Batch: 37501

MB MB Analyte Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 10/21/22 13:46 10/21/22 20:18 Gasoline Range Organics

(GRO)-C6-C10

Job ID: 890-3238-1

Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

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

Lab Sample ID: MB 880-37501/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 37440	Prep Batch: 37501
MR MR	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/21/22 20:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/21/22 20:18	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/21/22 13:46	10/21/22 20:18	1
o-Terphenyl	108		70 - 130			10/21/22 13:46	10/21/22 20:18	1

_										
Lab Sample ID: LCS 880-37	501/2-A						Client	Sample	ID: Lab Conti	rol Sample
Matrix: Solid									Prep Type	e: Total/N/
Analysis Batch: 37440									Prep Ba	tch: 3750
_			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	1112		mg/Kg		111	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	1053		mg/Kg		105	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	97		70 - 130							
o-Terphenyl	120		70 - 130							

Matrix: Solid							Prep 1	Type: Tot	tal/NA
Analysis Batch: 37440							Prep	Batch:	37501
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.0		mg/Kg		95	70 - 130	16	20
Diesel Range Organics (Over	1000	1029		mg/Kg		103	70 - 130	2	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-3237-A-	1-B W5							Cilent	Sample ID	: Matrix Spike
Matrix: Solid									Prep ⁻	Type: Total/NA
Analysis Batch: 37440									Prep	Batch: 37501
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	1078		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	133		998	1006		mg/Kg		87	70 - 130	
C10-C28)										
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	84		70 _ 130							
o-Terphenyl	91		70 - 130							

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Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-37501/3-A

QC Sample Results

Job ID: 890-3238-1 Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

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

Lab Sample ID: 890-3237-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 37440 Prep Type: Total/NA Prep Batch: 37501

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.8 U 998 1136 mg/Kg 111 70 - 130 5 20 (GRO)-C6-C10 998 1003 Diesel Range Organics (Over 133 mg/Kg 87 70 - 1300 20

C10-C28)

Analyte

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 83 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37510/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 37597

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac

Chloride <5.00 5.00 mg/Kg 10/23/22 16:51 **Client Sample ID: Lab Control Sample**

Lab Sample ID: LCS 880-37510/2-A **Matrix: Solid**

Analysis Batch: 37597

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 258.4 90 - 110 mg/Kg 103

Lab Sample ID: LCSD 880-37510/3-A

Matrix: Solid

Analysis Batch: 37597

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.9		ma/Ka		102	90 - 110	1	20	

Lab Sample ID: 890-3236-A-1-C MS

Matrix: Solid

Analysis Batch: 37597

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result %Rec Limits Unit Chloride F1 252 626.5 F1 89 90 - 110 403 mg/Kg

Lab Sample ID: 890-3236-A-1-D MSD

Matrix: Solid

Analysis Ratch: 37597

Alialysis Dalcii. 3/33/											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	403	F1	252	629.1		mg/Kg		90	90 - 110	0	20

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

QC Association Summary

Client: Ensolum Job ID: 890-3238-1
Project/Site: Elivis Injection Line SDG: 03D2057011

GC VOA

Prep Batch: 37517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37517/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 37678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	5035	
890-3238-2	PH04	Total/NA	Solid	5035	
890-3238-3	PH04	Total/NA	Solid	5035	
MB 880-37678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	8021B	37678
890-3238-2	PH04	Total/NA	Solid	8021B	37678
890-3238-3	PH04	Total/NA	Solid	8021B	37678
MB 880-37517/5-A	Method Blank	Total/NA	Solid	8021B	37517
MB 880-37678/5-A	Method Blank	Total/NA	Solid	8021B	37678
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	8021B	37678
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37678
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	37678
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37678

Analysis Batch: 37869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	Total BTEX	
890-3238-2	PH04	Total/NA	Solid	Total BTEX	
890-3238-3	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	8015B NM	37501
890-3238-2	PH04	Total/NA	Solid	8015B NM	37501
890-3238-3	PH04	Total/NA	Solid	8015B NM	37501
MB 880-37501/1-A	Method Blank	Total/NA	Solid	8015B NM	37501
LCS 880-37501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37501
LCSD 880-37501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37501
890-3237-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	37501
890-3237-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37501

Prep Batch: 37501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	8015NM Prep	
890-3238-2	PH04	Total/NA	Solid	8015NM Prep	
890-3238-3	PH04	Total/NA	Solid	8015NM Prep	
MB 880-37501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-3238-1 Project/Site: Elivis Injection Line SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-37501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3237-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3237-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Total/NA	Solid	8015 NM	
890-3238-2	PH04	Total/NA	Solid	8015 NM	
890-3238-3	PH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Soluble	Solid	DI Leach	_
890-3238-2	PH04	Soluble	Solid	DI Leach	
890-3238-3	PH04	Soluble	Solid	DI Leach	
MB 880-37510/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37510/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37510/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3236-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3236-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 37597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3238-1	PH04	Soluble	Solid	300.0	37510
890-3238-2	PH04	Soluble	Solid	300.0	37510
890-3238-3	PH04	Soluble	Solid	300.0	37510
MB 880-37510/1-A	Method Blank	Soluble	Solid	300.0	37510
LCS 880-37510/2-A	Lab Control Sample	Soluble	Solid	300.0	37510
LCSD 880-37510/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37510
890-3236-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	37510
890-3236-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	37510

Job ID: 890-3238-1

Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH04 Lab Sample ID: 890-3238-1 Date Collected: 10/19/22 10:00

Matrix: Solid Date Received: 10/20/22 09:38

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37869	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37667	10/24/22 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37501	10/21/22 13:46	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37440	10/22/22 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37510	10/21/22 14:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	37597	10/23/22 17:59	CH	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-3238-2 Matrix: Solid

Date Collected: 10/19/22 10:15 Date Received: 10/20/22 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37869	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37667	10/24/22 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37501	10/21/22 13:46	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37440	10/22/22 03:49	SM	EET MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	37510	10/21/22 14:10	KS	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	37597	10/23/22 18:04	CH	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-3238-3

Date Collected: 10/19/22 10:30 **Matrix: Solid** Date Received: 10/20/22 09:38

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37869	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37667	10/24/22 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37501	10/21/22 13:46	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37440	10/22/22 04:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37510	10/21/22 14:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37597	10/23/22 18:09	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: 890-3238-1 Project/Site: Elivis Injection Line

SDG: 03D2057011

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-24	06-30-23	
The following analytes the agency does not of	' '	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes f	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Job ID: 890-3238-1 Client: Ensolum Project/Site: Elivis Injection Line

SDG: 03D2057011

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Elivis Injection Line

Job ID: 890-3238-1

SDG: 03D2057011

D205/011	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3238-1	PH04	Solid	10/19/22 10:00	10/20/22 09:38	
890-3238-2	PH04	Solid	10/19/22 10:15	10/20/22 09:38	2
890-3238-3	PH04	Solid	10/19/22 10:30	10/20/22 09:38	6

		-	
el	iro	TI	ns

Circle Method(s) and Metal(s) to be analyzed

Environment Testing Xenco

Chain of Custody

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

Work	Order	No:	
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Address:	601 N Ma		d St Si	uite 400		Address			601 N	Marie	nfeld S	st Suite	400				State of Project:									
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Phone:			-		Email:	kjenning		solum	n.com				1	Deliverables: EDD ADaPT Other:												
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Samples Received In		emp Bla		Thermometer				ame ame	300.0)										NaHSO₄: NA	ABIS						
Cooler Custody Seal	- 1	_	-	Correction F		TUM		Par	7: 3								## 11			Na ₂ S ₂ O ₃ : Na						
				Temperature		3	2		(EPA:					11111		IN IN				n Acetate+		Zn.				
Sample Custody Sea Total Containers:	iis. res	S INO	_	Corrected To		3	ما		ES	2)	21	.		890-	3238 Cr	nain i				NaOH+Ascorbic Acid: SAPC						
Total Containers.							Grab/	# . 5	SRIC	801	(8021		Ì	1	-	1	- 1	1	- 1	-1	1					
Sample Ider	tification		Matrix	Date Sampled	Time Sampled	Depth		# of Cont	CHLORIDES	тРН (8015)	BTEX												Samp	le Cor	nments	,
PHO	4		S	10.19.22	1000	1'	G	1	Х	Х	Х															
PHO	4		S	10.19.22	1015	2'	G	1	Х	Х	Х															
PHO	4		S	10.19.22	1030	6'	G	1	Х	Х	Х					\perp							Incid	ent N	umber	
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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 4	Anna da State	10 bobs 935	2		
3			4		
5			6		
					Revised Date: 08/25/2020 Rev. 2020

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U





Hg: 1631 / 245.1 / 7470 / 7471

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3238-1 SDG Number: 03D2057011

List Source: Eurofins Carlsbad

Login Number: 3238 List Number: 1 Creator: Clifton, Cloe

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").

Released to Imaging: 4/10/2024 3:09:51 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3238-1 SDG Number: 03D2057011

Login Number: 3238 **List Source: Eurofins Midland** List Number: 2 List Creation: 10/21/22 10:46 AM

Creator: Rodriguez, Leticia

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	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3241-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

JURAMER

Authorized for release by 10/26/2022 9:12:52 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Review your project results through EOL.

Have a Question?

ASK

····· Links ······

Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 4/10/2024 3:09:51 PM

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

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Client: Ensolum
Project/Site: Elvis Injection Line
Laboratory Job ID: 890-3241-1
SDG: 03D2057011

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QC Association Summary	13
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Definitions/Glossary

Job ID: 890-3241-1 Client: Ensolum Project/Site: Elvis Injection Line

SDG: 03D2057011

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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 Contains Free Liquid CFL CFU Colony Forming Unit Contains No Free Liquid CNF

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

DΙ 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)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDI Method Detection Limit 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

Practical Quantitation Limit **PQL**

PRFS Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3241-1 SDG: 03D2057011

Job ID: 890-3241-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3241-1

Receipt

The samples were received on 10/20/2022 9:38 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 3.6° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3241-1), PH01 (890-3241-2) and PH01 (890-3241-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-37503 and analytical batch 880-37444 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Ensolum Job ID: 890-3241-1
Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH01 Lab Sample ID: 890-3241-1

Date Collected: 10/19/22 09:00 Matrix: Solid
Date Received: 10/20/22 09:38

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 06:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			10/24/22 13:20	10/26/22 06:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/24/22 13:20	10/26/22 06:45	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/26/22 09:33	
Anaivte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Δηαιντο	Racult	Oualition	RI	Unit	D	Prenared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/24/22 09:48	Dil Fac
Total TPH	<49.9	U	49.9		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<49.9	U	49.9		<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	49.9 (GC)	mg/Kg	-		10/24/22 09:48	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)	mg/Kg	-	Prepared	10/24/22 09:48 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	-	Prepared 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 22:35	Dil Fac
	<49.9 sel Range Orga Result <49.9 <49.9	Oualifier U	(GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:50 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 22:35 10/21/22 22:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Oualifier U	49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 22:35 10/21/22 22:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Oualifier U	49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared	10/24/22 09:48 Analyzed 10/21/22 22:35 10/21/22 22:35 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 82 <95	Oualifier U Qualifier U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared 10/21/22 13:50	Analyzed 10/21/22 22:35 10/21/22 22:35 10/21/22 22:35 Analyzed 10/21/22 22:35	Dil Fac
Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 <82 95 s, lon Chromato	Oualifier U Qualifier U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared 10/21/22 13:50	Analyzed 10/21/22 22:35 10/21/22 22:35 10/21/22 22:35 Analyzed 10/21/22 22:35	

Client Sample ID: PH01 Lab Sample ID: 890-3241-2

Date Collected: 10/19/22 09:15

Date Received: 10/20/22 09:38

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 07:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/24/22 13:20	10/26/22 07:05	1

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3241-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH01 Lab Sample ID: 890-3241-2

Date Collected: 10/19/22 09:15 Matrix: Solid Date Received: 10/20/22 09:38

Sample Depth: 5

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	10/24/22 13:20	10/26/22 07:05	1

Method: TAL SOP To	tal BTEX - Total BTEX Calculation				
Analyte	Result Qualifier	RL	Unit	D	Pre

Analyte	Result	Quaimer	KL	Unit	U	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/26/22 09:33	1

Method: SW846 8015 NM - Diesel I	Range Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/24/22 09:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9 L	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 22:55	1

Guddinio i tango Giganico	10.0		9,9	10/2 1/22 10:00	10/21/22 22:00	•
(GRO)-C6-C10						
Diesel Range Organics (Over	<49.9 U	49.9	mg/Kg	10/21/22 13:50	10/21/22 22:55	1
C10-C28)						
OII Range Organics (Over C28-C36)	<49.9 U	49.9	mg/Kg	10/21/22 13:50	10/21/22 22:55	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130	10/21/22 13:50	10/21/22 22:55	1
a Tambanul	101	70 120	10/21/22 12:50	10/01/00 00:55	1

o-Terphenyl	101	70 - 130	10/21/22 13:50	10/21/22 22:55	1
Marks of MCANANA 200 0	Anione Ion Characteranta	Onlykia			

Method: MCAWW 300.0 - Anions, for Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6410	50.2	mg/Kg			10/23/22 21:04	10

Lab Sample ID: 890-3241-3 **Client Sample ID: PH01**

Date Collected: 10/19/22 09:30 Matrix: Solid Date Received: 10/20/22 09:38

Sample Depth: 13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 07:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	108		70 130			10/24/22 13:20	10/26/22 07:26	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/24/22 13:3	20 10/26/22 07:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/24/22 13:	20 10/26/22 07:26	1

Method: TAL SOP To	tal BTEX - Total BTEX Calculation	
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/26/22 09:33	1

Method: SW846 8015 NM - Diesel Ra	ngo Organico (DDO) (CC)
i wemou. Swo4b ou is inivi - Diesei Ka	inde Ordanics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/24/22 09:48	1

Client Sample Results

Client: Ensolum Job ID: 890-3241-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH01

Lab Sample ID: 890-3241-3 Date Collected: 10/19/22 09:30

Matrix: Solid

Date Received: 10/20/22 09:38 Sample Depth: 13

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 23:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 23:16	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			10/21/22 13:50	10/21/22 23:16	1
o-Terphenyl	96		70 - 130			10/21/22 13:50	10/21/22 23:16	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	787		5.04	mg/Kg			10/23/22 21:18	

Surrogate Summary

Job ID: 890-3241-1 Client: Ensolum Project/Site: Elvis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-20579-A-11-C MS	Matrix Spike	89	99	
880-20579-A-11-D MSD	Matrix Spike Duplicate	97	105	
890-3241-1	PH01	115	99	
390-3241-2	PH01	91	102	
390-3241-3	PH01	108	97	
_CS 880-37678/1-A	Lab Control Sample	92	101	
_CSD 880-37678/2-A	Lab Control Sample Dup	94	96	
MB 880-37517/5-A	Method Blank	109	105	
MB 880-37678/5-A	Method Blank	108	106	
Surrogate Legend				

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)	
890-3240-A-2-C MS	Matrix Spike	82	84	
890-3240-A-2-D MSD	Matrix Spike Duplicate	79	81	
890-3241-1	PH01	82	95	
890-3241-2	PH01	88	101	
890-3241-3	PH01	84	96	
LCS 880-37503/2-A	Lab Control Sample	90	100	
LCSD 880-37503/3-A	Lab Control Sample Dup	99	110	
MB 880-37503/1-A	Method Blank	118	133 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3241-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37517/5-A

Matrix: Solid Analysis Batch: 37728 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37517

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10.)/21/22 14:22	10/25/22 11:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10)/21/22 14:22	10/25/22 11:26	1

Lab Sample ID: MB 880-37678/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37678

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/25/22 23:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/24/22 13:20	10/25/22 23:00	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/24/	/22 13:20	10/25/22 23:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/24/	/22 13:20	10/25/22 23:00	1

Lab Sample ID: LCS 880-37678/1-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 37678

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.09437		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1930		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab	o Control Sample Dup	

Prep Type: Total/NA

Prep Batch: 37678

	Бріке	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09898	mg/Kg		99	70 - 130	1	35

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QC Sample Results

Client: Ensolum Job ID: 890-3241-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid Analysis Batch: 37728 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 37678

RPD
RPD Limit
1 35
3 35
3 35
4 35
0

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-20579-A-11-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 37728

Prep Type: Total/NA

Prep Batch: 37678

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.0998	0.1091		mg/Kg		109	70 - 130	
Toluene	<0.00200	U F1 F2	0.0998	0.1041		mg/Kg		104	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.07417		mg/Kg		74	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.200	0.1392		mg/Kg		70	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0998	0.08216		mg/Kg		82	70 - 130	

MS MS

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

Lab Sample ID: 880-20579-A-11-D MSD

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37678

	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	0.101	0.002336	F1 F2	mg/Kg		2	70 - 130	192	35
Toluene	<0.00200	U F1 F2	0.101	0.004596	F1 F2	mg/Kg		5	70 - 130	183	35
Ethylbenzene	<0.00200	U F1 F2	0.101	0.004565	F1 F2	mg/Kg		5	70 - 130	177	35
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.201	0.01034	F1 F2	mg/Kg		5	70 - 130	172	35
o-Xylene	<0.00200	U F1 F2	0.101	0.005707	F1 F2	mg/Kg		6	70 - 130	174	35

MSD MSD

Surrogate	76Kecovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

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

Prep Batch: 37503

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 10/21/22 13:50 10/21/22 19:50 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum

Job ID: 890-3241-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

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

Lab Sample ID: MB 880-37503/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 37503 Analysis Batch: 37444

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/21/22 13:50	10/21/22 19:50	1
o-Ternhenyl	133	S1+	70 130			10/21/22 13:50	10/21/22 19:50	1

Lab Sample ID: LCS 880-37503/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 37503 Analysis Batch: 37444 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 858.1 86 70 - 130 mg/Kg (GRO)-C6-C10 1000 774.2 Diesel Range Organics (Over mg/Kg 77 70 - 130 C10-C28)

LC3 LC3	
%Recovery Qualific	er Limits
90	70 - 130
100	70 - 130
	%Recovery Qualified

Lab Sample ID: LCSD 880-37503/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 37444 Prep Batch: 37503

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130	19	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	902.2		mg/Kg		90	70 - 130	15	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-3240-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 37444 Prep Batch: 37503

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1086		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	781.6		mg/Kg		76	70 - 130	

C10-C28)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	84		70 - 130

Job ID: 890-3241-1

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SDG: 03D2057011

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

Lab Sample ID: 890-3240-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 37444

Diesel Range Organics (Over

Project/Site: Elvis Injection Line

Prep Type: Total/NA Prep Batch: 37503

70 - 130

74

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 998 1014 mg/Kg 102 70 - 130 7 20 (GRO)-C6-C10 998

762.1

mg/Kg

C10-C28)

Client: Ensolum

MSD MSD

<49.9 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37511/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 37598

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/23/22 19:22	1

Lab Sample ID: LCS 880-37511/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	259.6		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-37511/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	259.0		mg/Kg	_	104	90 - 110		20	

Lab Sample ID: 890-3240-A-3-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Sample	Sample	эріке	IVIO	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1120		248	1334	4	mg/Kg	_	87	90 - 110	

Lab Sample ID: 890-3240-A-3-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 37598

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1120		248	1329	4	mg/Kg		85	90 - 110	0	20

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3241-1

SDG: 03D2057011

GC VOA

Prep Batch: 37517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37517/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 37678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	5035	
890-3241-2	PH01	Total/NA	Solid	5035	
890-3241-3	PH01	Total/NA	Solid	5035	
MB 880-37678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	8021B	37678
890-3241-2	PH01	Total/NA	Solid	8021B	37678
890-3241-3	PH01	Total/NA	Solid	8021B	37678
MB 880-37517/5-A	Method Blank	Total/NA	Solid	8021B	37517
MB 880-37678/5-A	Method Blank	Total/NA	Solid	8021B	37678
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	8021B	37678
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37678
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	37678
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37678

Analysis Batch: 37871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	Total BTEX	
890-3241-2	PH01	Total/NA	Solid	Total BTEX	
890-3241-3	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	8015B NM	37503
890-3241-2	PH01	Total/NA	Solid	8015B NM	37503
890-3241-3	PH01	Total/NA	Solid	8015B NM	37503
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015B NM	37503
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37503
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37503
890-3240-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	37503
890-3240-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37503

Prep Batch: 37503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	8015NM Prep	
890-3241-2	PH01	Total/NA	Solid	8015NM Prep	
890-3241-3	PH01	Total/NA	Solid	8015NM Prep	
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-3241-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3240-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3240-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Total/NA	Solid	8015 NM	
890-3241-2	PH01	Total/NA	Solid	8015 NM	
890-3241-3	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Soluble	Solid	DI Leach	
890-3241-2	PH01	Soluble	Solid	DI Leach	
890-3241-3	PH01	Soluble	Solid	DI Leach	
MB 880-37511/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3240-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3240-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 37598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3241-1	PH01	Soluble	Solid	300.0	37511
890-3241-2	PH01	Soluble	Solid	300.0	37511
890-3241-3	PH01	Soluble	Solid	300.0	37511
MB 880-37511/1-A	Method Blank	Soluble	Solid	300.0	37511
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	300.0	37511
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37511
890-3240-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	37511
890-3240-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	37511

Job ID: 890-3241-1

Client: Ensolum Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH01 Lab Sample ID: 890-3241-1

Date Collected: 10/19/22 09:00 Matrix: Solid Date Received: 10/20/22 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 06:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37871	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37628	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 22:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37598	10/23/22 20:59	CH	EET MID

Client Sample ID: PH01 Lab Sample ID: 890-3241-2 Matrix: Solid

Date Collected: 10/19/22 09:15 Date Received: 10/20/22 09:38

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37871	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37628	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 22:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	37598	10/23/22 21:04	CH	EET MID

Client Sample ID: PH01 Lab Sample ID: 890-3241-3

Date Collected: 10/19/22 09:30 **Matrix: Solid** Date Received: 10/20/22 09:38

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 07:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37871	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37628	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37598	10/23/22 21:18	CH	EET MID

Laboratory References:

Released to Imaging: 4/10/2024 3:09:51 PM

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Elvis Injection Line

Job ID: 890-3241-1
SDG: 03D2057011

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	vindudo analytas for y
the agency does not of	. ,	at the laboratory is not certify	ed by the governing admonty. This list his	ay include analytes for t
0 ,	. ,	Matrix	Analyte	ay include analytes for t
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Summary

Client: Ensolum
Project/Site: Elvis Injection Line
Job ID: 890-3241-1
SDG: 03D2057011

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3241-1

SDG: 03D2057011

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3241-1	PH01	Solid	10/19/22 09:00	10/20/22 09:38	1
890-3241-2	PH01	Solid	10/19/22 09:15	10/20/22 09:38	5
890-3241-3	PH01	Solid	10/19/22 09:30	10/20/22 09:38	13



Environment Testing Xenco

Chain of Custody

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

Work (Order	No:	

																_,				www	.xenco	.com	raye								
Project Manager:	Kalei Jennings Bill to			Bill to: (if	different)	Kalei Jennings					Work Order Comments																			
Company Name:	Enso	lum, LLC				Company Name:			Ensolum, LLC						Program: UST/PST PRP Brownfields RRC Superfund						fund 🗌										
Address:	601 N Marienfeld St Suite 400				Address	ddress: 601 N Marienfeld St Suite 400						State of Project:																			
City, State ZIP:	Midland, TX 79701			City Sta	te ZIP:		Midland, TX 79701				Reporting: Level II Level III PST/UST TRRP Level IV						el IV														
Phone:					Email:	ail: kjennings@ensolum				nnings@ensolum.com						\pm	Deliverables: EDD ADaPT Other:														
Project Name:		Flyis Ini	ection I	ine	Turr	Turn Around			rn Around			Around								ANAL	YSIS F	REC	EQUEST						Preservative Codes		
Project Number:					Rush		Pres.		7.00.1.00						None: NO	DI Wat	er: H ₂ O														
Project Location:					Due Date:			COUL															Cool: Cool	MeOH:	Me						
Sampler's Name:	Conner Shore														HCL: HC HNO_3 : HN H_2SO_4 : H_2 NaOH: Na																
SAMPLE RECE	PT	Temp B	lank:	Tes No	Wet Ice:	Yes	No	nete	(0.				li li										H₃PO₄: HP								
Samples Received I	ntact:	(les)	No	Thermomet	er ID:	Tam	-00	Lau	(EPA: 300.0)				1							1	NaHSO₄: NAE										
Cooler Custody Sea	Custody Seals: Yes No N/A Correction F		actor:			Par	PA:										Na ₂ S ₂ O ₃ : NaSO ₃														
Sample Custody Sea	als:	Yes No	AHA	Temperatur	e Reading:	3	.6		S (E		_		8	90-324	1 Chai	n of	of Custody				Zn Acetate+N		50								
Total Containers:				Corrected T	emperature:	3.	6		IDE	015)	802				,					1		NaOH+Ascorbic Acid: SAPC									
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth		# of Cont	CHLOR	CHLORIDES TPH (8015)	BTEX (8021												Sample	Commer	its						
PHO)1		S	10.19.22	900	1'	G	1	Х	Х	Х								_												
PH()1		S	10.19.22	915	5'	G	1	Х	Х	X																				
PHO)1		S	10.19.22	930	13'	G	1	Х	Х	Χ						_			-			Incide	nt Numbe	er						
													-				-		-	-	-										
			2	7/													-		-	-											
		10	7.0																												
15																				_											
9					L											_	<u></u>														
Total 200.7 / 6	010	200.8 / 6	020:	8	RCRA 13	PPM Te	xas 11	AI S	Sb As	Ba I	Be B	Cd C	a Cr	Co C	u Fe	Pb	Mg N	In Mo	Ni I	< Se	Ag Si	O_2 Na	a Sr Tl Sn	J V Zn							

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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
165	Donarda Stuff	10/20/20 938			
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5		6			
I	<u> </u>				Revised Date: 08/25/2020 Rev. 2020:





Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3241-1 SDG Number: 03D2057011

Login Number: 3241 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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: 890-3241-1 SDG Number: 03D2057011

Login Number: 3241 **List Source: Eurofins Midland** List Number: 2 List Creation: 10/21/22 10:46 AM

Creator: Rodriguez, Leticia

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	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3240-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

JURAMER

Authorized for release by: 10/26/2022 9:12:52 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

A (facility of facility)

Review your project results through EO L.

Have a Question?

Expert

Visit us at: www.eurofinsus.com/Env

Released to Imaging: 4/10/2024 3:09:51 PM

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

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

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Client: Ensolum
Project/Site: Elvis Injection Line

Laboratory Job ID: 890-3240-1
SDG: 03D2057011

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Definitions/Glossary

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
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 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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

Job ID: 890-3240-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3240-1

Receipt

The samples were received on 10/20/2022 9:38 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 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-3240-1), PH02 (890-3240-2) and PH02 (890-3240-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-37503 and analytical batch 880-37444 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH02

Lab Sample ID: 890-3240-1 Date Collected: 10/19/22 09:05 Matrix: Solid Date Received: 10/20/22 09:38

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/24/22 13:20	10/26/22 05:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/24/22 13:20	10/26/22 05:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/24/22 13:20	10/26/22 05:44	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			10/26/22 09:33	1
- -								
Mathadi CIMO 4C CO4E NIM Diag.	al Danna Ornan	: (DDO) //	CC)					
Method: SW846 8015 NM - Diese		, , ,	•	Unit	n	Prenared	Analyzod	Dil Fac
Analyte	Result	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
Analyte		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/24/22 09:48	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg			10/24/22 09:48	1
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	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	10/24/22 09:48 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 20:52	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 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 10/21/22 13:50 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 20:52 10/21/22 20:52	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	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 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 20:52 10/21/22 20:52	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) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared	Analyzed 10/21/22 20:52 10/21/22 20:52 10/21/22 20:52 Analyzed	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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	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 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 20:52 10/21/22 20:52 Analyzed 10/21/22 20:52	1 Dil Fac 1 1 1 1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	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 10/21/22 13:50 10/21/22 13:50 10/21/22 13:50 Prepared 10/21/22 13:50	10/24/22 09:48 Analyzed 10/21/22 20:52 10/21/22 20:52 Analyzed 10/21/22 20:52	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: PH02 Lab Sample ID: 890-3240-2

Date Collected: 10/19/22 09:25 Date Received: 10/20/22 09:38

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/24/22 13:20	10/26/22 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/24/22 13:20	10/26/22 06:04	1

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Matrix: Solid

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH02 Lab Sample ID: 890-3240-2 Matrix: Solid

Date Collected: 10/19/22 09:25 Date Received: 10/20/22 09:38

Sample Depth: 5

Method: SW846 8021B - Volati	e Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	10/24/22 13:20	10/26/22 06:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			10/26/22 09:33	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			10/24/22 09:48	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	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 21:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 21:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/21/22 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	10/21/22 13:50	10/21/22 21:53	1
o-Terphenyl	104	70 - 130	10/21/22 13:50	10/21/22 21:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8760	50.0	mg/Kg			10/23/22 20:39	10

Client Sample ID: PH02 Lab Sample ID: 890-3240-3 **Matrix: Solid**

Date Collected: 10/19/22 09:40 Date Received: 10/20/22 09:38

Sample Depth: 12

1,4-Difluorobenzene (Surr)

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

Method. Syvoto 002 ID - Volat	ne Organic Comp)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/24/22 13:20	10/26/22 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/24/22 13:20	10/26/22 06:24	1

Method: TAI	SOP Total BTFX	- Total BTEX Calculation	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/26/22 09:33	1

70 - 130

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			10/24/22 09:48	1

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10/26/22 06:24

10/24/22 13:20

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH02

Date Received: 10/20/22 09:38

Lab Sample ID: 890-3240-3 Date Collected: 10/19/22 09:40

Matrix: Solid

Sample Depth: 12

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		10/21/22 13:50	10/21/22 22:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		10/21/22 13:50	10/21/22 22:14	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/21/22 13:50	10/21/22 22:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			10/21/22 13:50	10/21/22 22:14	1
o-Terphenyl	96		70 - 130			10/21/22 13:50	10/21/22 22:14	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	1120		4.96	mg/Kg			10/23/22 20:44	

Surrogate Summary

Job ID: 890-3240-1 Client: Ensolum Project/Site: Elvis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recov
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20579-A-11-C MS	Matrix Spike	89	99	
880-20579-A-11-D MSD	Matrix Spike Duplicate	97	105	
890-3240-1	PH02	103	100	
890-3240-2	PH02	101	102	
890-3240-3	PH02	99	97	
LCS 880-37678/1-A	Lab Control Sample	92	101	
LCSD 880-37678/2-A	Lab Control Sample Dup	94	96	
MB 880-37517/5-A	Method Blank	109	105	
MB 880-37678/5-A	Method Blank	108	106	
Surrogate Legend				
Juli Ogale Legellu				

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3240-1	PH02	77	89	
890-3240-2	PH02	93	104	
890-3240-2 MS	PH02	82	84	
890-3240-2 MSD	PH02	79	81	
890-3240-3	PH02	83	96	
LCS 880-37503/2-A	Lab Control Sample	90	100	
LCSD 880-37503/3-A	Lab Control Sample Dup	99	110	
MB 880-37503/1-A	Method Blank	118	133 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37517/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37517

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/22 14:22	10/25/22 11:26	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/22 14:22	10/25/22 11:26	

MB MB

MR MR

<0.00200 U

<0.00400 U

Result Qualifier

Surrogate	%Recovery Qua	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	10/21/22 14:22	10/25/22 11:26	1
1,4-Difluorobenzene (Surr)	105	70 - 130	10/21/22 14:22	10/25/22 11:26	1

RL

0.00200

0.00400

Lab Sample ID: MB 880-37678/5-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 37728

Client Sample ID: Method Blank

Analyzed

10/25/22 23:00

10/25/22 23:00

Prepared

10/24/22 13:20

10/24/22 13:20

Prep Type: Total/NA

Prep Batch: 37678

Dil Fac

<0.00200 U 0.00200 mg/Kg 10/24/22 13:20 10/25/22 23:00 <0.00200 U 0.00200 10/24/22 13:20 10/25/22 23:00 mg/Kg <0.00400 U 0.00400 mg/Kg 10/24/22 13:20 10/25/22 23:00 <0.00200 U 0.00200 mg/Kg 10/24/22 13:20 10/25/22 23:00

Unit

mg/Kg

mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/24/	/22 13:20	10/25/22 23:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/24/	/22 13:20	10/25/22 23:00	1

Lab Sample ID: LCS 880-37678/1-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 37678

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1004 mg/Kg 100 70 - 130 Toluene 0.100 0.1057 mg/Kg 106 70 - 130 Ethylbenzene 0.100 0.09437 mg/Kg 94 70 - 130 0.200 m-Xylene & p-Xylene 0.1930 mg/Kg 96 70 - 130 70 - 130 0.100 0.1024 o-Xylene mg/Kg 102

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

	Spike	LCSD LCSD				70 KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09898	mg/Kg		99	70 - 130	1	35

LCCD LCCD

Chiles

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

QC Sample Results

Job ID: 890-3240-1 Client: Ensolum Project/Site: Elvis Injection Line SDG: 03D2057011

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728							Prep	Batch:	37678
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1070		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.09688		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1994		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130	4	35
o-Aylene	0.100	0.1004		mg/rtg		100	70 - 100	7	00

	LCSD	LCSD		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	94		70 - 130	
1,4-Difluorobenzene (Surr)	96		70 - 130	

Client Sample ID: Matrix Spike Lab Sample ID: 880-20579-A-11-C MS Prep Type: Total/NA

Matrix: Solid Analysis Batch: 37728

Analysis Batch: 37728									Prep B	atch: 37678
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.0998	0.1091		mg/Kg		109	70 - 130	
Toluene	<0.00200	U F1 F2	0.0998	0.1041		mg/Kg		104	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.07417		mg/Kg		74	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.200	0.1392		mg/Kg		70	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0998	0.08216		mg/Kg		82	70 - 130	

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

Lab Sample ID: 880-20579-A-11-D MSD

Mat

Ana

b Sample ID: 880-20579-A-11-D MSD	Client Sample ID: Matrix Spike Duplicate
trix: Solid	Prep Type: Total/NA
alysis Batch: 37728	Prep Batch: 37678

Spike Sample Sample MSD MSD RPD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U F1 F2 0.101 0.002336 F1 F2 2 70 - 130 192 35 mg/Kg Toluene <0.00200 UF1F2 0.101 0.004596 F1 F2 mg/Kg 5 70 - 130 183 35 Ethylbenzene <0.00200 UF1F2 0.101 0.004565 F1 F2 mg/Kg 5 70 - 130 177 35 5 <0.00401 U F1 F2 0.201 0.01034 F1 F2 70 - 130 172 m-Xylene & p-Xylene mg/Kg 35 0.101 0.005707 F1 F2 o-Xylene <0.00200 U F1 F2 mq/Kq 70 - 130 174 35

	MSD	MISD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

MSD MSD

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 37503

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 10/21/22 13:50 10/21/22 19:50 (GRO)-C6-C10

Job ID: 890-3240-1 Client: Ensolum Project/Site: Elvis Injection Line SDG: 03D2057011

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

Lab Sample ID: MB 880-37503/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA** Analysis Batch: 37444 Prep Batch: 37503

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			10/21/22 13:50	10/21/22 19:50	1
o-Terphenyl	133	S1+	70 - 130			10/21/22 13:50	10/21/22 19:50	1

Lab Sample ID: LCS 880-379 Matrix: Solid	503/2-A						Client	Sample	ID: Lab Con	-
										pe: Total/N
Analysis Batch: 37444			Spike	LCS	LCS				%Rec	atch: 3750
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	858.1		mg/Kg		86	70 - 130	
Diesel Range Organics (Over			1000	774.2		mg/Kg		77	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	90		70 - 130							
o-Terphenyl	100		70 - 130							

Lab Sample ID: LCSD 880-37503/3-A Matrix: Solid Analysis Batch: 37444				Clier	nt Sam	nple ID:		ol Sampl Type: To Batch:	tal/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	902.2		mg/Kg		90	70 - 130	15	20

	LCSD LCSD	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	99	70 - 130
o-Terphenyl	110	70 - 130

Lab Sample ID: 890-3240-2 MS Matrix: Solid Analysis Batch: 37444									Prep Ty	ple ID: PH02 ype: Total/NA
Alialysis Balcii. 37444	Sample	Sample	Spike	MS	MS				%Rec	Batch: 37503
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1086		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	781.6		mg/Kg		76	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	82		70 _ 130							
o-Terphenyl	84		70 - 130							

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QC Sample Results

Client: Ensolum Job ID: 890-3240-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

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

Lab Sample ID: 890-3240-2 MSD Client Sample ID: PH02 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 37444 Prep Batch: 37503

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	1014		mg/Kg		102	70 - 130	7	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	998	762.1		mg/Kg		74	70 - 130	3	20
C10-C28)											

	INISD	MISD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37511/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 37598

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/23/22 19:22	1

Lab Sample ID: LCS 880-37511/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	259.6	-	mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-37511/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 37598

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	250.0		ma/Ka		104	90 110		20	

Lab Sample ID: 890-3240-3 MS Client Sample ID: PH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1120		248	1334	4	ma/Ka		87	90 - 110		_

Lab Sample ID: 890-3240-3 MSD Client Sample ID: PH02 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 37598

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1120		248	1329	4	mg/Kg		85	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

GC VOA

Prep Batch: 37517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37517/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 37678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	5035	
890-3240-2	PH02	Total/NA	Solid	5035	
890-3240-3	PH02	Total/NA	Solid	5035	
MB 880-37678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	8021B	37678
890-3240-2	PH02	Total/NA	Solid	8021B	37678
890-3240-3	PH02	Total/NA	Solid	8021B	37678
MB 880-37517/5-A	Method Blank	Total/NA	Solid	8021B	37517
MB 880-37678/5-A	Method Blank	Total/NA	Solid	8021B	37678
LCS 880-37678/1-A	Lab Control Sample	Total/NA	Solid	8021B	37678
LCSD 880-37678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37678
880-20579-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	37678
880-20579-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37678

Analysis Batch: 37870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	Total BTEX	
890-3240-2	PH02	Total/NA	Solid	Total BTEX	
890-3240-3	PH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	8015B NM	37503
890-3240-2	PH02	Total/NA	Solid	8015B NM	37503
890-3240-3	PH02	Total/NA	Solid	8015B NM	37503
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015B NM	37503
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37503
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37503
890-3240-2 MS	PH02	Total/NA	Solid	8015B NM	37503
890-3240-2 MSD	PH02	Total/NA	Solid	8015B NM	37503

Prep Batch: 37503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	8015NM Prep	
890-3240-2	PH02	Total/NA	Solid	8015NM Prep	
890-3240-3	PH02	Total/NA	Solid	8015NM Prep	
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Elvis Injection Line

Job ID: 890-3240-1
SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3240-2 MS	PH02	Total/NA	Solid	8015NM Prep	
890-3240-2 MSD	PH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Total/NA	Solid	8015 NM	
890-3240-2	PH02	Total/NA	Solid	8015 NM	
890-3240-3	PH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Soluble	Solid	DI Leach	_
890-3240-2	PH02	Soluble	Solid	DI Leach	
890-3240-3	PH02	Soluble	Solid	DI Leach	
MB 880-37511/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3240-3 MS	PH02	Soluble	Solid	DI Leach	
890-3240-3 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 37598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3240-1	PH02	Soluble	Solid	300.0	37511
890-3240-2	PH02	Soluble	Solid	300.0	37511
890-3240-3	PH02	Soluble	Solid	300.0	37511
MB 880-37511/1-A	Method Blank	Soluble	Solid	300.0	37511
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	300.0	37511
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37511
890-3240-3 MS	PH02	Soluble	Solid	300.0	37511
890-3240-3 MSD	PH02	Soluble	Solid	300.0	37511

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Job ID: 890-3240-1

SDG: 03D2057011

Client Sample ID: PH02

Project/Site: Elvis Injection Line

Client: Ensolum

Lab Sample ID: 890-3240-1

Matrix: Solid

Date Collected: 10/19/22 09:05 Date Received: 10/20/22 09:38

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 05:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37870	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37627	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 20:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37598	10/23/22 20:35	СН	EET MID

Lab Sample ID: 890-3240-2 **Client Sample ID: PH02 Matrix: Solid**

Date Collected: 10/19/22 09:25 Date Received: 10/20/22 09:38

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 4.97 g Total/NA 5 mL 37678 10/24/22 13:20 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 37728 10/26/22 06:04 MNR Total/NA Total BTEX 37870 10/26/22 09:33 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 37627 10/24/22 09:48 SM **EET MID** Total/NA Prep 8015NM Prep 37503 10.03 g 10 mL 10/21/22 13:50 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 37444 10/21/22 21:53 SM **EET MID**

Lab Sample ID: 890-3240-3 **Client Sample ID: PH02**

5.00 g

50 mL

50 mL

50 mL

37511

37598

Date Collected: 10/19/22 09:40 **Matrix: Solid** Date Received: 10/20/22 09:38

10

	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	37678	10/24/22 13:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/26/22 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37870	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37627	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 22:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37598	10/23/22 20:44	CH	EET MID

Laboratory References:

Soluble

Soluble

Leach

Analysis

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

DI Leach

300.0

Eurofins Carlsbad

EET MID

EET MID

KS

СН

10/21/22 14:12

10/23/22 20:39

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

EET MID

EET MID

EET MID

SW846

SW846

ASTM

Method Summary

Client: Ensolum Job ID: 890-3240-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** Total BTEX TAL SOP EET MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 8015B NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 300.0 Anions, Ion Chromatography MCAWW **EET MID**

Protocol References:

5035

8015NM Prep

DI Leach

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Closed System Purge and Trap

Deionized Water Leaching Procedure

Microextraction

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3240-1

SDG: 03D2057011

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-3240-1	PH02	Solid	10/19/22 09:05	10/20/22 09:38	1
890-3240-2	PH02	Solid	10/19/22 09:25	10/20/22 09:38	5
890-3240-3	PH02	Solid	10/19/22 09:40	10/20/22 09:38	12

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			-	100			
e	u	ro	t	I	n	S	

Environment Testing Xenco

Chain of Custody

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

Work (Order No:		

							HODDS	S, INIVI (5/5) 39	2-7550	, Canso	ad, NW	(3/3) :	700-319						www.	xenco.	com	Page _		of
Project Manager:	Kalei	Jennings				Bill to: (if	different	t)	Kalei .	Jennin	gs									W	ork Ord	der C	omments		
Company Name:	Enso	lum, LLC				Compan	y Name	:	Ensol	um, LL	С					_	Progra	ım: U	ST/PS	Т 🗌 Р	RP B	Brown	nfields 🗌 Rf	c 🗌 s	uperfund [
Address:	601 N	N Marienfe	eld St S	uite 400		Address:			601 N	Marie	nfeld S	t Suite	400				State		•					_	_
City, State ZIP:	Midia	nd, TX 79	701			City, Sta	e ZIP:		Midlar	nd, TX	79701						Report	ing: Le	evel II	Lev			/UST TR	RP 📙	Level IVL
Phone:					Email:	kjenning	s@en	solum	.com								Delive	rables	EDD	Ц	A	DaPT	□ Ot	ner:	
Project Name:		Elvis In	jection	Line	Turr	Around								ANAL	YSIS	REQ	UEST						Prese	vative	Codes
Project Number:			205701		☑ Routine	Rush		Pres.															None: NO	DI	Water: H ₂ C
Project Location:					Due Date:																	- 1	Cool: Cool		OH: Me
Sampler's Name: PO #:		Conr	ner Shoi	re	TAT starts the			55					İ							,			HCL: HC H ₂ S0 ₄ : H ₂		IO ₃ : HN IOH: Na
SAMPLE RECE	IPT	Temp E	Blank:	Yes No	Wet Ice:	Pies	No	neters	6										N HA			- 1	H₃PO₄: HP		
Samples Received I	ntact:	Yès	No	Thermomete		Inm.	007	-	300.0)					HIN									NaHSO₄: N		
Cooler Custody Sea	ls:	Yes No	NIA	Correction F	actor:	-D.	2	۵	PA										ERIH.				Na ₂ S ₂ O ₃ : Na		
Sample Custody Se	als:	Yes No	N/A	Temperature	e Reading:	3.	8		S (E		_			890-3	240 C	hain d	f Custo	ody			-		Zn Acetate+		
Total Containers:				Corrected T	emperature:	3	.6		SIDE	015)	(8021							-			1		NaOH+Asco	ITOIC ACIO	J: SAPC
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA:	TPH (8015)	втех (Samp	le Com	ments
PHO	02		S	10.19.22	905	1'	G	1	Х	Х	Х														
PHO	02		S	10.19.22	925	5'	G	1	Х	Х	Х														
PH(02		s	10.19.22	940	12'	G	1	Х	Х	Х												Incid	lent Nu	mber
									-													-			
			-	975																					
			10																						
	\leq																								
/ 5																									
Total 200.7 / 6	010	200.8 / 6	020:	8	RCRA 13I	РРМ Те	xas 11	Al :	Sb As	Ва	Ве В	Cd C	a Cr	Co C	u Fe	Pb	Mg M	n Mo	Ni K	Se .	Ag SiC	D ₂ Na	a Sr TI Sn	UVZ	Zn
Circle Method(s) a	nd Me	tal(s) to b	e analy	zed	TCLP / S	PLP 601	0: 8R	CRA	Sb A	s Ba	Be C	d Cr	Co C	Cu Pb	Mn I	Mo N	li Se	Ag T	U		Hg: 16	631 /	245.1 / 747	0 / 747	1

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.

Relinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1005	Donas Solot	10/20/22 938°			
3		4			
5		6			Revised Date: 08/25/2020 Rev. 202

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3240-1

 SDG Number: 03D2057011

Login Number: 3240 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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: 890-3240-1 SDG Number: 03D2057011

Login Number: 3240 **List Source: Eurofins Midland** List Number: 2 List Creation: 10/21/22 10:46 AM

Creator: Rodriguez, Leticia

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	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3236-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elivis Injection Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MAMER

Authorized for release by: 10/28/2022 10:57:43 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

····· Links ·····

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Released to Imaging: 4/10/2024 3:09:51 PM

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

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

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Client: Ensolum
Project/Site: Elivis Injection Line

Laboratory Job ID: 890-3236-1
SDG: 03D2057011

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Definitions/Glossary

Job ID: 890-3236-1 Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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**

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-3236-1
Project/Site: Elivis Injection Line SDG: 03D2057011

Job ID: 890-3236-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3236-1

Receipt

The samples were received on 10/20/2022 9:38 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 3.6° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH05 (890-3236-1), PH05 (890-3236-2), PH05 (890-3236-3) and PH05 (HOLD) (890-3236-4).

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37510 and analytical batch 880-37597 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

1

2

0

7

8

10

111

40

14

Client: Ensolum Job ID: 890-3236-1 Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH05 Lab Sample ID: 890-3236-1 Date Collected: 10/19/22 14:00

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/27/22 09:43	10/27/22 21:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			10/27/22 09:43	10/27/22 21:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/27/22 09:43	10/27/22 21:48	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/28/22 10:42	1
		ics (DRO) (•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	•	Mnit mg/Kg	<u>D</u>	Prepared	Analyzed 10/24/22 12:22	Dil Fac
Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg	<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg	-	<u> </u>	10/24/22 12:22	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg	-	Prepared	10/24/22 12:22 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg	-	Prepared 10/21/22 13:46	10/24/22 12:22 Analyzed 10/22/22 05:16	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/21/22 13:46 10/21/22 13:46	10/24/22 12:22 Analyzed 10/22/22 05:16 10/22/22 05:16	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/21/22 13:46 10/21/22 13:46 10/21/22 13:46	Analyzed 10/22/22 05:16 10/22/22 05:16 10/22/22 05:16	Dil Fac 1 1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/21/22 13:46 10/21/22 13:46 10/21/22 13:46 Prepared	Analyzed 10/22/22 05:16 10/22/22 05:16 10/22/22 05:16 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/21/22 13:46 10/21/22 13:46 10/21/22 13:46 Prepared 10/21/22 13:46	Analyzed 10/22/22 05:16 10/22/22 05:16 10/22/22 05:16 Analyzed 10/22/22 05:16	Dil Fac 1 1 Dil Fac Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/21/22 13:46 10/21/22 13:46 10/21/22 13:46 Prepared 10/21/22 13:46	Analyzed 10/22/22 05:16 10/22/22 05:16 10/22/22 05:16 Analyzed 10/22/22 05:16	1 1 1 Dil Fac

Client Sample ID: PH05 Lab Sample ID: 890-3236-2

Date Collected: 10/19/22 14:10 Date Received: 10/20/22 09:38

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/27/22 09:43	10/27/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/27/22 09:43	10/27/22 22:09	1

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-3236-1 Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH05 Lab Sample ID: 890-3236-2 Date Collected: 10/19/22 14:10

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 3

Method: SW846 8021B - Volatile O	rganic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifie		Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	10/27/22 09:43	10/27/22 22:09	1

	T	DEEM O L L C
Method: IAL SOP	iotal BIEX - Iota	I BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/28/22 10:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/24/22 12:22	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		10/21/22 13:46	10/22/22 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/22/22 04:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/22/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/21/22 13:46	10/22/22 04:33	1
o-Terphenyl	104		70 - 130	10/21/22 13:46	10/22/22 04:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4530		25.0	mg/Kg			10/23/22 17:20	5

Client Sample ID: PH05 Lab Sample ID: 890-3236-3 **Matrix: Solid**

Date Collected: 10/19/22 14:20 Date Received: 10/20/22 09:38

Sample Depth: 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		10/27/22 09:43	10/27/22 22:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/27/22 09:43	10/27/22 22:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/27/22 09:43	10/27/22 22:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/27/22 09:43	10/27/22 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/27/22 09:43	10/27/22 22:29	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116	70 - 130	10/27/22 09:43	10/27/22 22:29	1
1,4-Difluorobenzene (Surr)	93	70 - 130	10/27/22 09:43	10/27/22 22:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00398		0.00398	mg/Kg			10/28/22 10:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/24/22 12:22	1

Matrix: Solid

Lab Sample ID: 890-3236-3

10/23/22 17:25

Client Sample Results

Client: Ensolum Job ID: 890-3236-1
Project/Site: Elivis Injection Line SDG: 03D2057011

Client Sample ID: PH05

Date Collected: 10/19/22 14:20 Date Received: 10/20/22 09:38

Sample Depth: 6

Chloride

				Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:55	1
GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:46	10/22/22 04:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			10/21/22 13:46	10/22/22 04:55	1
o-Terphenyl	108		70 - 130			10/21/22 13:46	10/22/22 04:55	1

5.00

mg/Kg

431

2

9

10

12

13

14

Surrogate Summary

Job ID: 890-3236-1 Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3236-1	PH05	112	99	
890-3236-2	PH05	115	99	
890-3236-3	PH05	116	93	
890-3252-A-2-B MS	Matrix Spike	114	101	
890-3252-A-2-C MSD	Matrix Spike Duplicate	125	93	
LCS 880-37686/1-A	Lab Control Sample	111	98	
LCS 880-37987/1-A	Lab Control Sample	96	96	
LCSD 880-37686/2-A	Lab Control Sample Dup	111	94	
LCSD 880-37987/2-A	Lab Control Sample Dup	104	101	
MB 880-37987/5-A	Method Blank	111	106	

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)	
890-3236-1	PH05	75	83	
890-3236-2	PH05	87	104	
890-3236-3	PH05	90	108	
890-3237-A-1-B MS	Matrix Spike	84	91	
890-3237-A-1-C MSD	Matrix Spike Duplicate	83	89	
LCS 880-37501/2-A	Lab Control Sample	97	120	
LCSD 880-37501/3-A	Lab Control Sample Dup	96	116	
MB 880-37501/1-A	Method Blank	90	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3236-1 SDG: 03D2057011 Project/Site: Elivis Injection Line

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-37686/1-A

Matrix: Solid

Analysis Batch: 37962

Client	Sample	ID:	Lab	Control	Sample	E

Prep Type: Total/NA Prep Batch: 37686

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08480		mg/Kg		85	70 - 130	
Toluene	0.100	0.09591		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1857		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37686

Matrix: Solid

Lab Sample ID: LCSD 880-37686/2-A

Analysis Batch: 37962

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09111		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	11	35
Ethylbenzene	0.100	0.09617		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130	9	35
o-Xylene	0.100	0.1086		mg/Kg		109	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3252-A-2-B MS

Matrix: Solid

Analysis Batch: 37962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37686

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.09028	-	mg/Kg		90	70 - 130	
Toluene	<0.00201	U	0.0998	0.09150		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08339		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1745		mg/Kg		87	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09453		mg/Kg		95	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-3252-A-2-C MSD

Matrix: Solid

Analysis Batch: 37962

Client	Sample	ID:	Matrix	Snike	Duplicate
CHEIL	Sallible	ID.	IVIALIA	SDIKE	Dublicate

Prep Type: Total/NA

Prep Batch: 37686

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.06966		mg/Kg		70	70 - 130	26	35
Toluene	<0.00201	U	0.0990	0.08940		mg/Kg		90	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.0990	0.08208		mg/Kg		83	70 - 130	2	35

Prep Type: Total/NA

Prep Batch: 37987

QC Sample Results

Client: Ensolum Job ID: 890-3236-1 Project/Site: Elivis Injection Line SDG: 03D2057011

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

Lab Sample ID: 890-3252-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 37962 Prep Batch: 37686 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <0.00402 U 0.198 0.1737 88 70 - 130 35 m-Xylene & p-Xylene mg/Kg 0 o-Xylene <0.00201 U 0.0990 0.09585 mg/Kg 97 70 - 130

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-37987/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 37962

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 14:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 14:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/27/22 09:43	10/27/22 14:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/22 09:43	10/27/22 14:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/27/22 09:43	10/27/22 14:04	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/27/22 09:-	43 10/27/22 14:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/27/22 09:-	43 10/27/22 14:04	1

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Ar

.ab Sample ID: LCS 880-37987/1-A					Client	Sample	ID: Lab Contro	I Sample
Matrix: Solid							Prep Type:	Total/NA
Analysis Batch: 37962							Prep Bato	ch: 37987
	Spike	LCS	LCS				%Rec	
nalyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	

	Opine						/01 1CC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09096		mg/Kg		91	70 - 130	
Toluene	0.100	0.09666		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.08571		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.09292		mg/Kg		93	70 - 130	

	LC3 LC3	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-37987/2-A

Matrix: Solid

Analysis Batch: 37962								Batch:	37987
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	10	35
Toluene	0.100	0.1110		mg/Kg		111	70 - 130	14	35
Ethylbenzene	0.100	0.09703		mg/Kg		97	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2041		mg/Kg		102	70 - 130	14	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	14	35

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10/28/2022

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Page 10 of 22

QC Sample Results

Client: Ensolum Job ID: 890-3236-1 Project/Site: Elivis Injection Line SDG: 03D2057011

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

					= ::0:::0	mple ID: Metho	
						Prep Type: 1	Total/NA
						Prep Batch	n: 37501
МВ	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/21/22 20:18	1
<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/21/22 20:18	1
<50.0	U	50.0	mg/Kg		10/21/22 13:46	10/21/22 20:18	1
МВ	MB						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
90		70 - 130			10/21/22 13:46	10/21/22 20:18	1
108		70 - 130			10/21/22 13:46	10/21/22 20:18	1
	Result	Result Qualifier	Result Qualifier RL <50.0	Result Qualifier RL Unit <50.0	Result Qualifier RL Unit D <50.0	Result Qualifier RL Unit D Prepared <50.0	Prep Batch MB MB Result Qualifier RL Unit D Prepared Analyzed <50.0

Lab Sample ID: LCS 880-37501/2-A	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 37440	Prep Batch: 37501

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1112		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-37501/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 37440	Prep Batch: 37501

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	950.0		mg/Kg		95	70 - 130	16	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1029		mg/Kg		103	70 - 130	2	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	116		70 - 130

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Job ID: 890-3236-1 Client: Ensolum Project/Site: Elivis Injection Line SDG: 03D2057011

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

Lab Sample ID: 890-3237-A-1-B MS

Matrix: Solid Analysis Batch: 37440 Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 37501

Sample Sample MS MS Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits Unit Gasoline Range Organics <49.8 U 998 1078 mg/Kg 105 70 - 130 (GRO)-C6-C10 998 1006 87 70 - 130Diesel Range Organics (Over 133 mg/Kg C10-C28)

MS MS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 84 o-Terphenyl 91 70 - 130

Lab Sample ID: 890-3237-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 37440

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 37501

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 998 Gasoline Range Organics <49.8 1136 mg/Kg 111 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over 133 998 1003 mg/Kg 87 70 - 130 0 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 83 70 - 130 89 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37510/1-A Client Sample ID: Method Blank

MB MB

Matrix: Solid

Analysis Batch: 37597

Prep Type: Soluble

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 10/23/22 16:51 mg/Kg

Lab Sample ID: LCS 880-37510/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** Analysis Batch: 37597

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 258.4 103 mg/Kg

90 - 110

Lab Sample ID: LCSD 880-37510/3-A Matrix: Solid

Analysis Batch: 37597

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Chloride 250 255.9 mg/Kg 102 90 _ 110 20

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-3236-1 Project/Site: Elivis Injection Line

SDG: 03D2057011

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3236-1 MS **Client Sample ID: PH05 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37597

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	403	F1	252	626.5	F1	mg/Kg		89	90 - 110		-

Lab Sample ID: 890-3236-1 MSD **Client Sample ID: PH05** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 37597

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	403	F1	252	629.1		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-3236-1
Project/Site: Elivis Injection Line SDG: 03D2057011

GC VOA

Prep Batch: 37686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-37686/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37686/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3252-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
890-3252-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Total/NA	Solid	8021B	37987
890-3236-2	PH05	Total/NA	Solid	8021B	37987
890-3236-3	PH05	Total/NA	Solid	8021B	37987
MB 880-37987/5-A	Method Blank	Total/NA	Solid	8021B	37987
LCS 880-37686/1-A	Lab Control Sample	Total/NA	Solid	8021B	37686
LCS 880-37987/1-A	Lab Control Sample	Total/NA	Solid	8021B	37987
LCSD 880-37686/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37686
LCSD 880-37987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37987
890-3252-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	37686
890-3252-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37686

Prep Batch: 37987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3236-1	PH05	Total/NA	Solid	5035	
890-3236-2	PH05	Total/NA	Solid	5035	
890-3236-3	PH05	Total/NA	Solid	5035	
MB 880-37987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 38085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Total/NA	Solid	Total BTEX	
890-3236-2	PH05	Total/NA	Solid	Total BTEX	
890-3236-3	PH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Total/NA	Solid	8015B NM	37501
890-3236-2	PH05	Total/NA	Solid	8015B NM	37501
890-3236-3	PH05	Total/NA	Solid	8015B NM	37501
MB 880-37501/1-A	Method Blank	Total/NA	Solid	8015B NM	37501
LCS 880-37501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37501
LCSD 880-37501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37501
890-3237-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	37501
890-3237-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37501

Prep Batch: 37501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Total/NA	Solid	8015NM Prep	
890-3236-2	PH05	Total/NA	Solid	8015NM Prep	
890-3236-3	PH05	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Elivis Injection Line
Job ID: 890-3236-1
SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3237-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3237-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37668

Lab Sample ID Client Sample I	D Prep Type	Matrix	Method	Prep Batch
890-3236-1 PH05	Total/NA	Solid	8015 NM	
890-3236-2 PH05	Total/NA	Solid	8015 NM	
890-3236-3 PH05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Soluble	Solid	DI Leach	
890-3236-2	PH05	Soluble	Solid	DI Leach	
890-3236-3	PH05	Soluble	Solid	DI Leach	
MB 880-37510/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37510/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37510/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3236-1 MS	PH05	Soluble	Solid	DI Leach	
890-3236-1 MSD	PH05	Soluble	Solid	DI Leach	

Analysis Batch: 37597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3236-1	PH05	Soluble	Solid	300.0	37510
890-3236-2	PH05	Soluble	Solid	300.0	37510
890-3236-3	PH05	Soluble	Solid	300.0	37510
MB 880-37510/1-A	Method Blank	Soluble	Solid	300.0	37510
LCS 880-37510/2-A	Lab Control Sample	Soluble	Solid	300.0	37510
LCSD 880-37510/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37510
890-3236-1 MS	PH05	Soluble	Solid	300.0	37510
890-3236-1 MSD	PH05	Soluble	Solid	300.0	37510

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Analysis

300.0

Job ID: 890-3236-1 SDG: 03D2057011

Client Sample ID: PH05

Date Received: 10/20/22 09:38

Project/Site: Elivis Injection Line

Client: Ensolum

Soluble

Lab Sample ID: 890-3236-1 Date Collected: 10/19/22 14:00

Matrix: Solid

EET MID

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Run Factor Amount Amount Number or Analyzed Analyst Type Lab Total/NA Prep 5035 4.99 g 5 mL 37987 10/27/22 09:43 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 37962 10/27/22 21:48 MNR EET MID Total/NA Analysis Total BTEX 38085 10/28/22 10:42 SM **EET MID** 8015 NM Total/NA Analysis 1 37668 10/24/22 12:22 SM **EET MID** 10 mL 37501 10/21/22 13:46 EET MID Total/NA 8015NM Prep 10.00 g DM Prep Total/NA Analysis 8015B NM 1 uL 1 uL 37440 10/22/22 05:16 SM **EET MID** 50 mL 37510 10/21/22 14:10 KS Soluble DI Leach 4.96 g FFT MID Leach

Client Sample ID: PH05 Lab Sample ID: 890-3236-2

50 mL

50 mL

37597

10/23/22 17:06

СН

Date Collected: 10/19/22 14:10 Matrix: Solid Date Received: 10/20/22 09:38

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Prep Total/NA 5035 5 mL 37987 10/27/22 09:43 MNR EET MID 5.02 g 8021B Total/NA Analysis 1 5 mL 5 mL 37962 10/27/22 22:09 MNR **EET MID** Total/NA Total BTEX 38085 10/28/22 10:42 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 37668 10/24/22 12:22 SM **EET MID** Total/NA 8015NM Prep 10.01 g 10 mL 37501 10/21/22 13:46 DM **EET MID** Prep Total/NA Analysis 8015B NM 1 uL 1 uL 37440 10/22/22 04:33 SM **EET MID** Soluble 5 g DI Leach 37510 10/21/22 14:10 KS **EET MID** Leach 50 mL Soluble Analysis 300.0 5 50 mL 50 mL 37597 10/23/22 17:20 СН **EET MID**

Client Sample ID: PH05 Lab Sample ID: 890-3236-3

Date Collected: 10/19/22 14:20 **Matrix: Solid** Date Received: 10/20/22 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37987	10/27/22 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37962	10/27/22 22:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38085	10/28/22 10:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			37668	10/24/22 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37501	10/21/22 13:46	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37440	10/22/22 04:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37510	10/21/22 14:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37597	10/23/22 17:25	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
Project/Site: Elivis Injection Line
Job ID: 890-3236-1
SDG: 03D2057011

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date		
Texas		ELAP	T104704400-22-24	06-30-23		
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for y		
the agency does not of	• •	it the laboratory is not certific	ed by the governing additionty. This list the	ay iliciude allalytes for t		
,	• •	Matrix	Analyte	ay include analytes for v		
the agency does not of	fer certification.	,	, , ,	ay include analytes for v		

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Method Summary

Job ID: 890-3236-1 Client: Ensolum SDG: 03D2057011 Project/Site: Elivis Injection Line

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

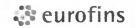
Project/Site: Elivis Injection Line

Job ID: 890-3236-1

SDG: 03D2057011

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3236-1	PH05	Solid	10/19/22 14:00	10/20/22 09:38	1
890-3236-2	PH05	Solid	10/19/22 14:10	10/20/22 09:38	3
890-3236-3	PH05	Solid	10/19/22 14:20	10/20/22 09:38	6



Circle Method(s) and Metal(s) to be analyzed

Environment Testing Xenco

Chain of Custody

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

Work Order No:

																				www	.xenc	o.com	Page		01
Project Manager:	Kalei	Jennings				Bill to: (if	f differen	t)	Kalei	Jennin	gs					Work Order Comments									
Company Name:	Enso	lum, LLC				Compar	y Name	e:	Ensol	um, LL	.C						Program: UST/PST PRP Brownfields RRC Superfund								
Address:	601 N	N Marienfe	eld St S	uite 400		Address: 601 N Marienfeld St Suite 400					State of Project:														
City, State ZIP.	Midla	nd, TX 70	701			City, State ZIP:			Midland, TX 79701					Reporting: Level II Level III PST/UST TRRP Level IV											
Phone:					Email	kjennin	gs@en	solum	.com							士	Deliv	erable	: EDI			ADaP	Oth	er:	
Project Name:		Elvis In	iection	Line	Turi	Around								ANAL	YSIS	REC	UES1						Preser	vative (Codes
Project Number:			205701		☑ Routine	Rush	1	Pres.															None: NO	DI \	Vater: H₂O
Project Location:					Due Date:			0000															Cool: Cool	Me	OH: Me
Sampler's Name: PO #:		Conn	er Sho	re	TAT starts the			20) 1314111	i Andronania	1100.44	. [1]]}}	 	 	İ	İ		HCL: HC H ₂ S0 ₄ : H ₂		O₃: HN DH: Na
SAMPLE RECE	PT	Temp E	Blank:	(Yes) No	Wet Ice:	Yes	No	meters	6					- 111111							H ₃ PO ₄ : HP NaHSO ₄ : NABIS				
Samples Received I	ntact:	Ves	No	Thermomete	er ID:	Ton	807	гап	300					Ш											
Cooler Custody Sea	ls:	Yes No M7A Correction Factor: 70 2 6 3				HILLI	TOUR TO THE WIND WATER THAT THE TOTAL TO THE TOTAL THE T				Na ₂ S ₂ O ₃ : NaSO ₃														
Sample Custody Se	als:	Yes No	NIA	Temperature	e Reading:	3	18							890-	3236 C	nain	in of Custody			Zn Acetate+NaOH: Zn					
Total Containers:				Corrected T	emperature:	3	ما.		IDE	15)	(8021		1	1	1		1	1 1 1 1 1		1	NaOH+Ascorbic Acid: SAPC				
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES	TPH (8015)	BTEX (Sampl	e Comr	nents
PH()5		S	10.19.22	1400	1'	G	1	Х	Х	Х														
PH()5		s	10.19.22	1410	3'	G	1	Х	Х	Х														
PHO)5		S	10.19.22	1420	6'	G	1	Х	Х	Х											-	Incid	ent Nur	nber
PH05 (H	(OLD)		S	10.19.22	1430	10'	G	1	Х	Х	Х												HOLD PEN	DING 6	SAMPLE
				9.27																		-			
	AT		17														<u> </u>				-	 			
			/																		┼	-			
\mathcal{A}															-		-			-	-	+	 		
()												-			-		-				-	+			
							L																		
Total 200.7 / 6	010	200.8 / 6	020:	8	RCRA 13	PPM Te	exas 11	AI S	Sb As	Ba I	Ве В	Cd C	a Cr	Co C	u Fe	Pb	Mg N	n Mo	Ni k	Se	Ag S	iO ₂ N	la Sr Tl Sn	UVZ	n

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affillates 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 \$6 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	Amala Sert	10/20/22 93	3		
3			4		
5			6		
					Revised Date 08/25/2020 Rev 2020

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

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Revised Date 08/2

Hg: 1631 / 245.1 / 7470 / 7471

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3236-1

 SDG Number: 03D2057011

Login Number: 3236 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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: 890-3236-1 SDG Number: 03D2057011

Login Number: 3236
List Source: Eurofins Midland
List Number: 2
List Creation: 10/21/22 10:46 AM

Creator: Rodriguez, Leticia

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-3242-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

JURAMER

Authorized for release by: 10/31/2022 9:38:06 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

------ LINKS ------

Have a Question?



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signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic

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

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Client: Ensolum
Project/Site: Elvis Injection Line
Laboratory Job ID: 890-3242-1
SDG: 03D2057011

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Definitions/Glossary

Job ID: 890-3242-1 Client: Ensolum Project/Site: Elvis Injection Line

SDG: 03D2057011

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description** MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. U Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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 Contains Free Liquid CFL CFU Colony Forming Unit Contains No Free Liquid CNF Duplicate Error Ratio (normalized absolute difference) DER Dil Fac **Dilution Factor** DΙ Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

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

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

Decision Level Concentration (Radiochemistry)

MDI Method Detection Limit 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 Practical Quantitation Limit **PQL**

PRFS 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

Eurofins Carlsbad

Case Narrative

Job ID: 890-3242-1 Client: Ensolum

Project/Site: Elvis Injection Line SDG: 03D2057011

Job ID: 890-3242-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3242-1

Receipt

The samples were received on 10/20/2022 9:58 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 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-3242-1), PH03 (890-3242-2) and PH03 (890-3242-3).

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (880-20605-A-1-E MS) and (880-20605-A-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-38021 and analytical batch 880-38089 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.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-37503 and analytical batch 880-37444 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Job ID: 890-3242-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH03 Lab Sample ID: 890-3242-1 Matrix: Solid

Date Collected: 10/19/22 12:00 Date Received: 10/20/22 09:58

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/26/22 14:13	10/29/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			10/26/22 14:13	10/29/22 02:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/26/22 14:13	10/29/22 02:15	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/30/22 21:36	1
Method: SW846 8015 NM - Diese	l Pango Organ	ice (DPO) ((3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/24/22 09:48	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 23:36	1
DiI D Oi (O						10/21/22 13:50	10/21/22 23:36	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg			10/21/22 20:00	1
5 5 · ·	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		10/21/22 13:50	10/21/22 23:36	
C10-C28)		U				10/21/22 13:50 Prepared		1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0				10/21/22 23:36	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0			Prepared	10/21/22 23:36 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 75 86	U Qualifier	50.0 Limits 70 - 130 70 - 130			Prepared 10/21/22 13:50	10/21/22 23:36 Analyzed 10/21/22 23:36	1 1 Dil Fac 1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 75 86 5, lon Chromato	U Qualifier	50.0 Limits 70 - 130 70 - 130		D	Prepared 10/21/22 13:50	10/21/22 23:36 Analyzed 10/21/22 23:36	1 Dil Fac

Client Sample ID: PH03 Lab Sample ID: 890-3242-2

Date Collected: 10/19/22 12:15 Date Received: 10/20/22 09:58

Sample Depth: 8'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/26/22 14:13	10/29/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			10/26/22 14:13	10/29/22 02:36	

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Matrix: Solid

Client: Ensolum Job ID: 890-3242-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

Lab Sample ID: 890-3242-2

Client Sample ID: PH03 Date Collected: 10/19/22 12:15 Matrix: Solid Date Received: 10/20/22 09:58

Sample Depth: 8'

Method: SW846 8021B -	Volatile Organic Compounds	(GC)	(Continued)	
monioa. Ottogo ocz ib	voiding Organic Compounds	100,	(Oontiniaca)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	9.3	70 130	10/26/22 14:13	10/29/22 02:36	

Method: TAI	SOP Total RTFY -	Total BTEX Calculation	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/30/22 21:36	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			10/24/22 09:48	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		10/21/22 13:50	10/21/22 23:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 23:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	10/21/22 13:50	10/21/22 23:57	1
o-Terphenyl	101	70 - 130	10/21/22 13:50	10/21/22 23:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quali	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4810	24.9	mg/Kg			10/23/22 21:28	5

Client Sample ID: PH03 Lab Sample ID: 890-3242-3

Date Collected: 10/19/22 12:30 Date Received: 10/20/22 09:58

Sample Depth: 15'

Mothodi CIMO46 0004D	Valatila Organia Campaunda (CC)

Welliou. Syvo46 6021B - Volat	method. 500046 6021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
Toluene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/26/22 14:13	10/29/22 02:56	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)			70 - 130			10/26/22 14:13	10/29/22 02:56	1		

1,4-Difluorobenzene (Surr)	91	70 - 130	10/26/22 14:13	10/29/22 02:56	
_					

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			10/30/22 21:36	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/24/22 09:48	1

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Matrix: Solid

Client Sample Results

Client: Ensolum
Project/Site: Elvis Injection Line
Job ID: 890-3242-1
SDG: 03D2057011

Client Sample ID: PH03

Lab Sample ID: 890-3242-3

10/23/22 21:33

Date Collected: 10/19/22 12:30
Date Received: 10/20/22 09:58

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Matrix: Solid

Sample Depth: 15'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/22/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/22/22 00:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/22 13:50	10/22/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			10/21/22 13:50	10/22/22 00:18	1
o-Terphenyl	95		70 - 130			10/21/22 13:50	10/22/22 00:18	1

50.4

mg/Kg

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Surrogate Summary

Client: Ensolum Job ID: 890-3242-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-20605-A-1-E MS	Matrix Spike	101	92	
80-20605-A-1-F MSD	Matrix Spike Duplicate	102	90	
90-3242-1	PH03	118	94	
90-3242-2	PH03	129	93	
90-3242-3	PH03	117	91	
.CS 880-37911/1-A	Lab Control Sample	99	91	
.CSD 880-37911/2-A	Lab Control Sample Dup	101	91	
/IB 880-37911/5-A	Method Blank	102	87	
/IB 880-38021/5-A	Method Blank	72	60 S1-	

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)	
890-3240-A-2-C MS	Matrix Spike	82	84	
890-3240-A-2-D MSD	Matrix Spike Duplicate	79	81	
890-3242-1	PH03	75	86	
890-3242-2	PH03	87	101	
890-3242-3	PH03	83	95	
LCS 880-37503/2-A	Lab Control Sample	90	100	
LCSD 880-37503/3-A	Lab Control Sample Dup	99	110	
MB 880-37503/1-A	Method Blank	118	133 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-3242-1
Project/Site: Elvis Injection Line SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37911/5-A

Matrix: Solid Analysis Batch: 38089 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 37911

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 01:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 01:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 01:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/26/22 14:13	10/29/22 01:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/26/22 14:13	10/29/22 01:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/26/22 14:13	10/29/22 01:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/26/22	14:13	10/29/22 01:12	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/26/22	14:13	10/29/22 01:12	1

Lab Sample ID: LCS 880-37911/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 38089

Prep Type: Total/NA
Prep Batch: 37911

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07484 mg/Kg 75 70 - 130 Toluene 0.100 0.07671 mg/Kg 77 70 - 130 Ethylbenzene 0.100 0.07425 mg/Kg 74 70 - 130 70 - 130 0.1480 m-Xylene & p-Xylene 0.200 mg/Kg 74 0.100 0.08609 o-Xylene mg/Kg 86 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-37911/2-A

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 37911

Prep Batch: 37911

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07938		mg/Kg		79	70 - 130	6	35	
Toluene	0.100	0.08189		mg/Kg		82	70 - 130	7	35	
Ethylbenzene	0.100	0.08032		mg/Kg		80	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.1556		mg/Kg		78	70 - 130	5	35	
o-Xylene	0.100	0.08950		mg/Kg		89	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-20605-A-1-E MS

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37911

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <0.00201 U F1 0.100 0.08080 80 Benzene mg/Kg 70 - 130 Toluene <0.00201 UF1 0.100 0.07923 mg/Kg 78 70 - 130

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QC Sample Results

Client: Ensolum Job ID: 890-3242-1
Project/Site: Elvis Injection Line SDG: 03D2057011

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

Lab Sample ID: 880-20605-A-1-E MS

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37911

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.100	0.07637		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1440		mg/Kg		72	70 - 130	
o-Xylene	<0.00201	U	0.100	0.08398		mg/Kg		84	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 101
 70 - 130

 1,4-Difluorobenzene (Surr)
 92
 70 - 130

Lab Sample ID: 880-20605-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38089

Sample Sample Spike MSD MSD %Rec RPD

Analyte Result Qualifier Added Result Qualifier PRO Limits RPD Limits RPD Limits

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.06610	F1	mg/Kg		66	70 - 130	20	35
Toluene	<0.00201	U F1	0.0990	0.06481	F1	mg/Kg		65	70 - 130	20	35
Ethylbenzene	<0.00201	U F1	0.0990	0.06337	F1	mg/Kg		64	70 - 130	19	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1224	F1	mg/Kg		62	70 - 130	16	35
o-Xylene	<0.00201	U	0.0990	0.07052		mg/Kg		71	70 - 130	17	35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 102
 70 - 130

 1,4-Difluorobenzene (Surr)
 90
 70 - 130

Lab Sample ID: MB 880-38021/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38089

MB MB

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/27/22 13:34	10/28/22 13:48	1	

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	10/27/22 13:34	10/28/22 13:48	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130	10/27/22 13:34	10/28/22 13:48	1

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37503

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Factor

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 10/21/22 13:50
 10/21/22 19:50
 1

(GRO)-C6-C10

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Client: Ensolum Job ID: 890-3242-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

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

Lab Sample ID: MB 880-37503/1-A

Lab Sample ID: LCS 880-37503/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 37444

Analysis Batch: 37444

Client Sample ID: Method Blank	Client	Sample	ID:	Method	Blank
--------------------------------	--------	--------	-----	--------	-------

Prep Type: Total/NA

Prep Batch: 37503

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
	C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/22 13:50	10/21/22 19:50	1
١									

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/21/22 13:50	10/21/22 19:50	1
o-Terphenyl	133	S1+	70 - 130	10/21/22 13:50	10/21/22 19:50	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37503

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	858.1	mg/Kg	 I	86	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	774.2	mg/Kg	I	77	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-37503/3-A

Matrix: Solid

Analysis Batch: 37444

C	ilent Sample ID: Lab Control Sample Dup
	Prep Type: Total/NA
	Prep Batch: 37503

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130	19	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	902.2		mg/Kg		90	70 - 130	15	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-3240-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 37444

_	none oumpio ioi matrix opino	
	Prep Type: Total/NA	
	Prep Batch: 37503	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1086		mg/Kg		109	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	998	781.6		mg/Kg		76	70 - 130	
C10-C28)										

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	84		70 - 130

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Job ID: 890-3242-1

Client: Ensolum SDG: 03D2057011 Project/Site: Elvis Injection Line

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

Lab Sample ID: 890-3240-A-2-	D MSD						Client Sa	ample ID	D: Matrix S	pike Dur	olicate
Matrix: Solid									Prep '	Type: To	tal/NA
Analysis Batch: 37444									Prep	Batch:	37503
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	1014		mg/Kg		102	70 - 130	7	20

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	1014		mg/Kg		102	70 - 130	7	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	998	762.1		mg/Kg		74	70 - 130	3	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 70 - 130 79 o-Terphenyl 81 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37511/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/23/22 19:22	1

Lab Sample ID: LCS 880-37511/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 37598

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	259.6		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-37511/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	259.0		ma/Ka		104	90 110		20	

Lab Sample ID: 890-3239-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 37598

	Sample S	Sample	Spike	MS	MS				%Rec	
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1220		1240	2517		ma/Ka		105	90 110	

Lab Sample ID: 890-3239-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 37598

7 many one Battern of the												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	1220		1240	2519		ma/Ka		105	90 _ 110		20	

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QC Sample Results

Client: Ensolum Job ID: 890-3242-1 Project/Site: Elvis Injection Line

SDG: 03D2057011

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3240-A-3-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 37598

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 1120 248 1334 4 mg/Kg 87 90 - 110

Lab Sample ID: 890-3240-A-3-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 37598

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 1120 248 1329 4 mg/Kg 85 90 - 110 0 20

QC Association Summary

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3242-1

SDG: 03D2057011

GC VOA

Prep Batch: 37911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	5035	
890-3242-2	PH03	Total/NA	Solid	5035	
890-3242-3	PH03	Total/NA	Solid	5035	
MB 880-37911/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37911/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37911/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20605-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-20605-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 38021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38021/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 38089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	8021B	37911
890-3242-2	PH03	Total/NA	Solid	8021B	37911
890-3242-3	PH03	Total/NA	Solid	8021B	37911
MB 880-37911/5-A	Method Blank	Total/NA	Solid	8021B	37911
MB 880-38021/5-A	Method Blank	Total/NA	Solid	8021B	38021
LCS 880-37911/1-A	Lab Control Sample	Total/NA	Solid	8021B	37911
LCSD 880-37911/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37911
880-20605-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	37911
880-20605-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37911

Analysis Batch: 38188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	Total BTEX	
890-3242-2	PH03	Total/NA	Solid	Total BTEX	
890-3242-3	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	8015B NM	37503
890-3242-2	PH03	Total/NA	Solid	8015B NM	37503
890-3242-3	PH03	Total/NA	Solid	8015B NM	37503
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015B NM	37503
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37503
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37503
890-3240-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	37503
890-3240-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37503

Prep Batch: 37503

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	8015NM Prep	
890-3242-2	PH03	Total/NA	Solid	8015NM Prep	
890-3242-3	PH03	Total/NA	Solid	8015NM Prep	
MB 880-37503/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37503/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Elvis Injection Line

Job ID: 890-3242-1
SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-37503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3240-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3240-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Total/NA	Solid	8015 NM	
890-3242-2	PH03	Total/NA	Solid	8015 NM	
890-3242-3	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Soluble	Solid	DI Leach	
890-3242-2	PH03	Soluble	Solid	DI Leach	
890-3242-3	PH03	Soluble	Solid	DI Leach	
MB 880-37511/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3239-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3239-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-3240-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3240-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 37598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3242-1	PH03	Soluble	Solid	300.0	37511
890-3242-2	PH03	Soluble	Solid	300.0	37511
890-3242-3	PH03	Soluble	Solid	300.0	37511
MB 880-37511/1-A	Method Blank	Soluble	Solid	300.0	37511
LCS 880-37511/2-A	Lab Control Sample	Soluble	Solid	300.0	37511
LCSD 880-37511/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37511
890-3239-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	37511
890-3239-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	37511
890-3240-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	37511
890-3240-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	37511

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Client: Ensolum

Job ID: 890-3242-1

Project/Site: Elvis Injection Line SDG: 03D2057011

Client Sample ID: PH03 Lab Sample ID: 890-3242-1 Date Collected: 10/19/22 12:00

Matrix: Solid Date Received: 10/20/22 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37911	10/26/22 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38089	10/29/22 02:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38188	10/30/22 21:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37629	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37503	10/21/22 13:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 23:36	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	37598	10/23/22 21:23	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3242-2 Date Collected: 10/19/22 12:15 Matrix: Solid

Date Received: 10/20/22 09:58

	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	37911	10/26/22 14:13	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	38089	10/29/22 02:36	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			38188	10/30/22 21:36	SM	EET MIC
Total/NA	Analysis	8015 NM		1			37629	10/24/22 09:48	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37503	10/21/22 13:50	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/21/22 23:57	SM	EET MIC
Soluble	Leach	DI Leach			5.02 g	50 mL	37511	10/21/22 14:12	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	37598	10/23/22 21:28	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3242-3

Date Collected: 10/19/22 12:30 Date Received: 10/20/22 09:58

	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	37911	10/26/22 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38089	10/29/22 02:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38188	10/30/22 21:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37629	10/24/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37503	10/21/22 13:50	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37444	10/22/22 00:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37511	10/21/22 14:12	KS	EET MIC
Soluble	Analysis	300.0		10	50 mL	50 mL	37598	10/23/22 21:33	CH	EET MID

Laboratory References:

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

Matrix: Solid

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3242-1 Project/Site: Elvis Injection Line SDG: 03D2057011

Laboratory: Eurofins Midland

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of		ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for whi
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum Job ID: 890-3242-1 SDG: 03D2057011 Project/Site: Elvis Injection Line

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Elvis Injection Line

Job ID: 890-3242-1

SDG: 03D2057011

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3242-1	PH03	Solid	10/19/22 12:00	10/20/22 09:58	1
890-3242-2	PH03	Solid	10/19/22 12:15	10/20/22 09:58	8
890-3242-3	PH03	Solid	10/19/22 12:30	10/20/22 09:58	15

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Circle Method(s) and Metal(s) to be analyzed

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

Wor	k Order	No:	

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ddress:		Marienfel	ld St S	uite 400		Address			601 N	Marie	nfeld S	St Suite	400				State of Project:									
ity, State ZIP:	-	nd, TX 797				City, Sta	te ZIP:		Midland, TX 79701					Reporting: Level II Level III PST/UST TRRP Level IV												
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poler Custody Sea	s:	Yes No	N/A	Correction F	actor:	-0.		Pa	(EPA:												N	a ₂ S ₂ O ₃ : Na	SO₃			
ample Custody Sea	als:	Yes No	N/A	Temperatur	e Reading:	3.	8						800		18111 88 11 1								Acetate+			
otal Containers:				Corrected T	emperature:	3			DE	15)	(8021		090	3242 (Chain o	f Cu	stody					N	OH+Asco	bic Aci	d: SAPC	
Sample idea	ntificati	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont		TPH (8015)	BTEX (~ 			Sampl	e Com	ments	
PHO)3		S	10.19.22	1200	1'	G	1	Х	Х	Х															
PHO)3		S	10.19.22	1215	8'	G	1	Х	Х	Х															
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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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					Revised Date: 08/25/2020 Re

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3242-1

 SDG Number: 03D2057011
 SDG Number: 03D2057011

Login Number: 3242 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 N/A Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

0

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12

12

<6mm (1/4").

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3242-1

 SDG Number: 03D2057011
 SDG Number: 03D2057011

List Source: Eurofins Midland
List Number: 2
List Creation: 10/21/22 10:46 AM

Creator: Rodriguez, Leticia

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

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December 15, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/12/23 14:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/12/2023 Sampling Date: 12/07/2023

Reported: 12/15/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 01 @ 0-4' (H236619-01)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result Chloride 48.0 16.0 12/13/2023 ND 432 108 400 3.64

Sample ID: SW 02 @ 0-4' (H236619-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 12/13/2023 ND 432 108 400 3.64

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 consequential damages, 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 the services hereunder by Cardinal, regardless of whether such 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.

Celeg & Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Page 4 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name				BIL	LIU		ANALTSI	S REQUES	
Project Manager	roject Manager:								
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City:	That PW ATWY	Zip:98	220	Attn:				*	
Phone #:	Fax #:			Address:					
Project #: 8	ject #: \BD20570 \ Project Owner:\\ \UUV\\			City:					
Project Name:	aluis injection line			State: Z	ip:				
Project Location	1: 62,8206661-118	Ka282	,	Phone #:					
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FOR LAB USE ONLY	3.		MATRIX	PRESERV.	SAMPLING	3			
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	nd Damages. Cardinal's liability and client's exclusive remedy ing those for negligence and any other cause whatsoever sha								
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December 18, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/13/23 15:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/13/2023 Sampling Date: 12/12/2023

Reported: 12/18/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 03 @ 0-4' (H236664-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2023	ND	432	108	400	0.00	
Sample ID: SW 04 @ 0-4' ((H236664-0	2)							
nloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/14/2023	ND	432	108	400	0.00	
Sample ID: SS 01 @ 0.5' (H									
•		-	Analyze	d By: AC					
Chloride, SM4500Cl-B	mg	/kg		d By: AC Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier
Chloride, SM4500Cl-B Analyte	mg , Result	/kg Reporting Limit	Analyzed	Method Blank	BS 433	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B Analyte	mg	/kg			BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	Reporting Limit	Analyzed	Method Blank		•			Qualifier
Chloride, SM4500Cl-B Analyte Chloride Sample ID: SS 02 @ 0.5' (F	Result	Reporting Limit 16.0	Analyzed 12/14/2023	Method Blank		•			Qualifier
Chloride, SM4500Cl-B	mg, Result 48.0 H236664-04	Reporting Limit 16.0	Analyzed 12/14/2023	Method Blank ND		•			Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/13/2023 Sampling Date: 12/13/2023
Reported: 12/18/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact

Project Number: 03D2057011 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SS 03 @ 0.5'	(H236664-05	5)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144 16.0		12/14/2023	ND	432	108	400	0.00	
Sample ID: SS 04 @ 0.5'	(H236664-06	5)							
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	12/14/2023	ND	432	108	400	3.77	
Sample ID: SS 05 @ 0.5'	(H236664-07	')							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/14/2023	ND	432	108	400	3.77	

Sample ID: SS 06 @ 0.5' (H236664-08)

Chloride, SM4500Cl-B		/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2023	ND	432	108	400	3.77	

Sample ID: SS 07 @ 0.5' (H236664-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/14/2023	ND	432	108	400	3.77	

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/13/2023 Sampling Date: 12/13/2023

Reported: 12/18/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SS 08 @ 0.5' (H236664-10)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 96.0 12/14/2023 432 400 16.0 ND 108 3.77

Sample ID: SS 09 @ 0.5' (H236664-11)

Chloride, SM4500Cl-B Analyzed By: HM Reporting Limit BS True Value QC RPD Analyte Result Analyzed Method Blank Qualifier % Recovery Chloride 32.0 16.0 12/14/2023 432 400 3.77 ND 108

Sample ID: SS 10 @ 0.5' (H236664-12)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 48.0 12/14/2023 ND 400 16.0 432 108 3.77

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 consequential damages, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

CHAIN-OF CUSTODY AND ANALYSIS REQUEST

Page 6 of

Released to Imaging: 4/10/2024 3:09:51 PM

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Enohum LLC			BI	LL TO			A to the		ANALY	SIS RE	QUES	Τ	
Project Manager	" Arrec C. Le			P.O. #:										
Address: 31	22 Nanonal Porks H	wy		Company:				-						
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Phone #: 72	0-384-1365 Fax#:			Address:										
Project #: 62	3 DZOS 7011 Project Owne	er: M	averich	City:										
Project Name:	This tain the Inc			State:	Zip:									
Project Location	1: 32.82036810:	3.78	39382	Phone #:						1				
Sampler Name:				Fax #:										
FOR LAB USE ONLY	30	TT	MATRIX	PRESERV.	SAMPL	ING								
Lab I.D. H23119194	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL .	OTHER: ACID/BASE: ICE / COOT	DATE	TIME	CIT							L
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever 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,

affiliates or successors arising out of or related to the p Relinquished By:		egardless of whether such claim is beserved By:	iers	Verbal Result: Y		de Ema	
Relinquished By:		eived By:		REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Turnaround Time: Thermometer ID #140 Correction Factor 0°C	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Page 7 of 7

Released to Imaging: 4/10/2024 3:09:51 PM

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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BILL TO

P.O. #:



December 19, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 11:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM
AIMEE COLE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/15/2023 Sampling Date: 12/14/2023

Reported: 12/19/2023 Sampling Type: Soil Project Name: ELVIS INJECTION LINE Sampling Condition: Coo

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW - 05 @ 0-4' (H236688-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result Chloride <16.0 16.0 12/15/2023 ND 416 104 400 6.74

Sample ID: SW - 06 @ 0-4' (H236688-02)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 144 16.0 12/15/2023 ND 416 104 400 6.74

Sample ID: SW - 07 @ 0-4' (H236688-03)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 272 16.0 12/15/2023 ND 400 6.74 416 104

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 consequential damages, 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 the services hereunder by Cardinal, regardless of whether such 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.

Celey D. Kune



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Page 4 of



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum LLC		BILL TO	ANALYSIS REQUEST	$\overline{}$
Project Manager:		1	P.O. #:		
Project Manager.	Are lote	4	Company:		
Address: 3/	22 Nyronal Parks A	= 0027D	Attn:		
city: (aylsb	State: / U/1	Zib: 2250			
Phone #: 774	9-384-7365 Fax #:	11/	Address:		
Project #: 6	3 D 70 S 70 Project Owner	: Maneries	City:		
Project Name:	E VIS Injection Line 3 Z. 8 203 68, -103.		State: Zip:		
Project Location:	32.820368,-103,	789382	Phone #:		
Sampler Name:	Ronn Hue		Fax #:	INC.	-
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLI	ING	
		C)OMP RRS ATER ER			
		(C)(MATE			
Lab I.D.	Sample I.D.	NDW NDW	ASE		
		(G)RAB (BONT/ # CONT/ GROUNI WASTEV SOIL	ACID/BASE: OTHER: OTHER: OTHER:		
H230688		(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	DATE DATE	TIME	
)	5WOG @ 0-41 5WOG @ 0-41 5W07 @ 0-41	(C)	12/4/30	0903	,
2	5WOG @0-4'	CIX		0909 X	
3	Sw07 (2)0-41	4 >	× 12/15/23 (9917 1	
			0,1		
			XH		
		A single state of the state of the country of the state o	ract or tort, shall be limited to the amount paid b	by the client for the	
PLEASE NOTE: Liability and analyses, All claims including	d Damages. Cardinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be	deemed waived unless made in writing	and received by Cardinal within 30 days after o	completion of the applicable	
service. In no event shall Ca affiliates or successors arisin	ardinal be liable for incidental or consequental damages, including	ig williout illilludori, baoinees illeri-p	aim is based upon any of the above stated reas	sons or otherwise.	
Relinquished By	Date: 12-15-25	Received By:		All Results are emailed. Please provide Email address:	
in	Time: (03	Sygne	onille	acole @ ensolum.com REMARKS:	
Relinquished By	v: Date:	Received By:	1	REMARKS:	
, samquionou by	Time:				
		Sample Con	dition CHECKED BY: 1	Turnaround Time: Standard Macteria (only) Sample Condition	
Delivered By: (C		Cool Intac	t (Initials)	Rush Cool Intact Observed Temp. °C	
Sampler - UPS -	Bus - Other: Corrected Temp. °C	Yes D		Thermometer ID #140 Correction Factor 0°C No No Corrected Temp. °C	0



December 21, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

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This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/19/2023 Sampling Date: 12/18/2023

Reported: 12/21/2023 Sampling Type: Soil
Project Name: ELVIS INJECTION LINE Sampling Condition: Cool

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SS 11 @ 0.5' (H236746-01)

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	12/20/2023	ND	416	104	400	3.77	
Sample ID: SS 12 @ 0.5'	(H236746-02	2)							
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	12/20/2023	ND	416	104	400	3.77	
Comple ID: CC 12 @ 0 El	/H226746 02								
Sample ID: SS 13 @ 0.5'	•	•	Analyze	d Bv: HM					
Chloride, SM4500Cl-B	mg	/kg	•	d By: HM Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier
Chloride, SM4500CI-B Analyte	mg Result	/kg Reporting Limit	Analyzed	Method Blank	BS 416	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B	mg	/kg	•	•	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Chloride, SM4500CI-B Analyte	Result 64.0	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result 64.0	Reporting Limit 16.0	Analyzed 12/20/2023	Method Blank		,	•		Qualifier
Chloride, SM4500Cl-B Analyte Chloride Sample ID: SS 14 @ 0.5'	Result 64.0	Reporting Limit 16.0	Analyzed 12/20/2023	Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/19/2023 Sampling Date: 12/18/2023

Reported: 12/21/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SS 15 @ 0.5' (H236746-05)

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	12/20/2023	ND	416	104	400	3.77	

Sample ID: SW 08 @ 0-4' (H236746-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2023	ND	416	104	400	3.77	

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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*** Insufficient time to reach temperature.

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Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5

Page 5 of

Released to Imaging: 4/10/2024 3:09:51 PM

Observed Temp. °C

Corrected Temp. °C

Cool Intact

☐ Yes ☐ Yes ☐ No ☐ No

Rush

Thermometer ID #140 Correction Factor 0°C

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Observed Temp. °C 5.7

Corrected Temp. °C

Company Name:	E. 1. 11/	7			-					-	31L	L TO						ANAL	_YSIS	REG	JUES			
Company Name.	Ensolym LLC	-			-			P.	0. #:															
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City: Carls On	ad 3-384-7365	State: VIII	Zip:	80	500	,,			ttn:															
Phone #: 720	1-384-7365	Fax #:	-4			1			ddres	ss:														-
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Sampler Name:	Ronm Huy	es '						F	ax #:			CAMED	1110											
FOR LAB USE ONLY			1.1			MATE	RIX	-	PRI	RESER	RV.	SAMP	LING											
Lab I.D. H236746	Sample I.E SSI 1 (6) SSI 2 (6) SSI 3 (6) SSI 4 (6)		O O (G)RAB OR (C)OMP	+ CONTAINERS	GROUNDWATER	X SOIL	OIL	SLUDGE OTHER	ACID/BASE:	X ICE/COOL	OTHER:	DATE) ひ/ ほうて3	TIME 0855 0905	- X C/-										
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analyses. All claims including the	those for negligence and any other ca	cause whatsoever shall be to	deemed	at limite	otion busi	einage inte	terrunti	tions los	ss of use	e or los	oss of pr	profits incurred by	client, its subsidia	iaries,	abie								- <u> </u>	
affiliates or successors arising of	dinal be liable for incidental or consequently out of or relaced to the performance of	of services hereunder by C	Calulliai,	ıı, reyan	ved B	HIIOUIO	such o	claim is	based u	ipon ar	ny of th		Verhal Re	esult:	O Y	es [□ No	Add'	l Phone	#:				
Relinquished By:	7	Date: 12-19-23	Ne	Cerv		у.			11	111	1.1	1/0	All Result	ts are e					ail addre	ess:				3
- Horar	h	Time: 137	2		1/11	1111	110	14	M	Pa	R	EK.	ac	ole	@ E	nsolu	m.	Con						
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

(Initials)

Sample Condition

Cool Intact

Yes Yes



December 29, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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Method EPA 524.4 Regulated VOCs (V1, V2, V3)

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Celey D. Keene

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Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/22/2023 Sampling Date: 12/22/2023
Reported: 12/29/2023 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Shari Cisneros

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 10 @ 0-4' (H236823-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2023	ND	432	108	400	0.00	

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Celey D. Keine



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Celeg D. Freene

Page 4 of 4

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum LILC												_	T	T	T	Т			\Box	T				
Project Manager:	Anee Cole						P.0	0. #	:																
Address: 3	Emplym LLC Hinee Cole 122 Narroral Parlis Dead State: NM	Ha	4				Co	mp	any:																
City: Cevel	State: NM	Zip:	8	53	W		Att	n:																,-	
Phone #: 7	20 384 7365Fax#:						Ad	dre	ss:																
Project #:	3D Zo 576 Project Owner	: IA	10	NOV.	ch		Cit	ty:																	
Project Wame:	Flui Tai and no line		W-1				St	ate:			Zip:					1									
Project Name.	Elvis Injection Line: 32.870 368, -103.	7	gl	73	87		Ph	one	e #:																
Project Location	B 2002 Hand	, .			0		Fa	x #:																	
Sampler Name:	1-Briva Hages		П		MAT	RIX	_	-	ESE	RV.	SAMPI	LING	1												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	ONTAINERS	GROUNDWATER		OIL	HER:	ACID/BASE:	ICE / COOL	OTHER:			a												
H236823		<u>©</u>	U	GR		9	oT o	AC	<u></u>	Р	DATE	TIME	9	-	+	+	+			-	+	+			+
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analyses. All claims includi service. In no event shall C affiliates or successors arisi	nd Damages. Cardinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin ing out of or related to the performance of services hereunder by	g witho Cardina	ut limi	tation, bu	siness int	erruntio	ns. loss	of use	e, or los	ss of p	rofits incurred by c he above stated re-	lient, its subsidiasons or otherw	iaries, vise.		/es	□ No			Phone						
Relinquished B	y: Date: 55 Time: 12/22/2	3	y ece	ved I	Jy.	(~					All Result	ts are	emaile	d. Plea	ase pro	vide	5ma	il addr	ess:					
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December 27, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/21/2023 Sampling Date: 12/20/2023

Reported: 12/27/2023 Sampling Type: Soil Project Name: ELVIS INJECTION LINE Sampling Condition: Coo

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 09 @ 0-4' (H236804-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	0.00	
Sample ID: SS 16 @ 0.5' ((H236804-02))							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	0.00	
Sample ID: SS 17 @ 0.5' ((H236804-03)	1							
Chloride, SM4500CI-B	mg,		Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	•		Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B Analyte Chloride	mg,	/kg	-	-	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	mg, Result 16.0	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Analyte Chloride Sample ID: SS 18 @ 0.5' (mg, Result 16.0	Reporting Limit	Analyzed 12/22/2023	Method Blank		,	•		Qualifier
Analyte Chloride	mg, Result 16.0 [H236804-04]	Reporting Limit	Analyzed 12/22/2023	Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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January 04, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/03/24 12:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM
AIMEE COLE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 01/03/2024 Sampling Date: 01/03/2024

Reported: 01/04/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SS 02 1' (H240026-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result Chloride 240 16.0 01/04/2024 ND 448 400 3.51 112

Sample ID: SS 04 1' (H240026-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 96.0 16.0 01/04/2024 ND 448 112 400 3.51

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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4

Page 4 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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January 08, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/24 12:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 01/04/2024 Sampling Date: 01/04/2024

Reported: 01/08/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 11 0-4' (H240034-01)

Chi--id- CM4E00CL D

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SW 12 0-4' (H240034-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SS 19 0.5' (F	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SS 20 0.5' (H	1240034-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/05/2024	ND	432	108	400	3.64	

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 01/04/2024 Sampling Date: 01/04/2024

Reported: 01/08/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

64.0

16.0

Sample ID: SS 21 0.5' (H240034-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SS 22 0.5' (H	1240034-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SS 23 0.5' (H	1240034-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2024	ND	432	108	400	3.64	
Sample ID: SS 24 0.5' (H	1240034-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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ND

432

108

400

3.64

01/05/2024

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Celeg D. Freene

Chloride



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

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Page 5 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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January 10, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 8:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 01/09/2024 Sampling Date: 01/08/2024

Reported: 01/10/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: PH 03 0.5' (H240074-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/09/2024	ND	432	108	400	0.00	
Sample ID: PH 03 4' (H2	40074-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/09/2024	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 consequential damages, 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 the services hereunder by Cardinal, regardless of whether such 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.

Celey D. Kreene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

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Page 4 of



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAY (575) 392-2476

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State: NM Zip: 88220	Attn:	
AN ASSOCIATION PRINT	Address:	
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t Location: 32.820368, -103.789382	Phone #:	
er Name: Pomi Hyru	Fax #:	
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January 10, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



Analytical Results For:

ENSOLUM
AIMEE COLE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 01/05/2024 Sampling Date: 01/05/2024

Reported: 01/10/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: PH02 13' (H240055-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result Chloride 48.0 16.0 01/08/2024 ND 448 400 0.00 112

Sample ID: SW13 0-4' (H240055-02)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 144 16.0 01/08/2024 ND 448 112 400 0.00

Sample ID: SW14 0-4' (H240055-03)

Chloride, SM4500Cl-B Analyzed By: HM mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 272 16.0 01/08/2024 ND 400 0.00 448 112

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 consequential damages, 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 the services hereunder by Cardinal, regardless of whether such 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.

Celeg D. Freene

Received by OCD: 2/16/2024 12:56:47 PM

Page 4 of 4

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 10, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 8:52.

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Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 01/09/2024 Sampling Date: 01/08/2024

Reported: 01/10/2024 Sampling Type: Soil

Project Name: ELVIS INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 03D2057011 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.820368, -103.789382

Sample ID: SW 15 0-4' (H240075-01)

Chloride, SM4500Cl-B	mg	ı/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/09/2024	ND	432	108	400	0.00	
-	0-4' (H240075-02)								
Chloride, SM4500CI-B	mg	ı/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/09/2024	ND	432	108	400	0.00	
Sample ID: PH 01	14' (H240075-03)								
Chloride, SM4500CI-B	mg	j/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/09/2024	ND	432	108	400	0.00	
Sample ID: SS 25	0.5' (H240075-04)								
Chloride, SM4500Cl-B	mg	j/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/09/2024	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 4/10/2024 3:09:51

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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APPENDIX E

NMOCD Notifications

From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Velez, Nelson, EMNRD</u>; <u>Bratcher, Michael, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)

Date: Wednesday, November 22, 2023 1:19:37 PM

Attachments: image001.png

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive | Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>

Sent: Wednesday, November 22, 2023 12:43 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of November 27, 2023.

- EVGSAU Sat 6 Mobile Tester / NAPP2304744550
 - Sampling Dates: 11/27/2023 11/28/2023 (between 9:00 am and 3:00 pm MT)
- Elvis Injection Line / NAPP2213642290
 - Sampling Dates: 11/29/2023 12/1/2023 (between 9:00 am and 3:00 pm MT)

Thank you,



Aimee Cole

Senior Managing Scientist 720-384-7365

Ensolum, LLC

From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Velez, Nelson, EMNRD</u>; <u>Bratcher, Michael, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 12/4/2023)

Date: Wednesday, November 29, 2023 2:52:15 PM

Attachments: image001.pnq

image002.pnq image003.pnq image004.pnq

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive | Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>

Sent: Wednesday, November 29, 2023 2:41 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 12/4/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of December 4th, 2023.

- Jalmat 188 / NAPP2235373931
 - Sampling Dates: 12/6/2023 12/8/2023 (between 9:00 am and 3:00 pm MT)
- Elvis Injection Line / NAPP2213642290
 - Sampling Dates: 12/4/2023 12/8/2023 (between 9:00 am and 3:00 pm MT)

Thank you,



Aimee Cole Senior Managing Scientist 720-384-7365 Ensolum, LLC

To: <u>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 291740

Date: Wednesday, December 6, 2023 11:12:01 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/11/2023 @ 10:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Call 903-227-9483 to contact the scheduled sampler.

Additional Instructions: 32.820436, -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 292787

Date: Friday, December 8, 2023 1:51:54 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/12/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Sidewalls samples will be collected every 200 square feet. Per the approved work plan, floor samples will only be collected in areas where the excavation is shallower than 4 ft deep. No floor samples will be collected at depths of 4 feet or greater. Call 903-227-9483 to contact the scheduled sampler.

Excavation and confirmation sampling will continue from Dec 11, 2023 through Dec 22, 2023 between the hours of 9:00 am and 3:00 PM.

Additional Instructions: 32.820436, -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 293248

Date: Monday, December 11, 2023 3:13:01 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/13/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 293253

Date: Monday, December 11, 2023 3:19:51 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/14/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294114

Date: Wednesday, December 13, 2023 10:33:27 AM

You don't often get email from ocdonline@state.nm.us. Learn why this is important

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/15/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294116

Date: Wednesday, December 13, 2023 10:35:50 AM

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[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/18/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 295762

Date: Monday, December 18, 2023 12:50:57 PM

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[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/20/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 295763

Date: Monday, December 18, 2023 12:53:01 PM

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[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/21/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 295765

Date: Monday, December 18, 2023 12:54:23 PM

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[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 12/22/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365.

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 298780

Date: Tuesday, January 2, 2024 9:26:47 AM

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[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 01/03/2023 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 298784

Date: Tuesday, January 2, 2024 9:29:15 AM

You don't often get email from ocdonline@state.nm.us. Learn why this is important

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 01/04/2024 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Contact Aimee Cole at 720-384-7365

Additional Instructions: 32.820436 -103.789386

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>Aimee Cole</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 298788

Date: Tuesday, January 2, 2024 9:32:25 AM

You don't often get email from ocdonline@state.nm.us. Learn why this is important

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

When: 01/05/2024 @ 09:00

Where: F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

Additional Information: Aimee Cole at 720-384-7365

Additional Instructions: 32.820436 -103.789386

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: Kalei Jennings

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 170836

Date: Tuesday, January 24, 2023 2:09:29 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213642290, with the following conditions:

Remediation Plan Approved.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Jennifer Nobui Environmental Specialist-Advanced 505-470-3407 Jennifer.Nobui@emnrd.nm.gov

To: Kalei Jennings

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 155448

Date: Monday, November 28, 2022 3:57:33 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213642290, for the following reasons:

• Remediation Plan Denied. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Release has not been adequately delineated. Please resubmit a revised Remediation Plan to the OCD portal by December 28, 2022.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 155448.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Jennifer Nobui Environmental Specialist-Advanced 505-470-3407 Jennifer.Nobui@emnrd.nm.gov

District III

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 315216

QUESTIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2213642290					
Incident Name	NAPP2213642290 ELVIS INJECTION LINE @ 0					
Incident Type	Produced Water Release					
Incident Status	Reclamation Report Received					
Incident Facility	[fGRL0822131454] ELVIS BATTERY					

Location of Release Source						
Please answer all the questions in this group.						
Site Name	ELVIS INJECTION LINE					
Date Release Discovered	05/04/2022					
Surface Owner	Federal					

Incident Details						
Please answer all the questions in this group.						
Incident Type	Produced Water Release					
Did this release result in a fire or is the result of a fire	No					
Did this release result in any injuries	No					
Has this release reached or does it have a reasonable probability of reaching a watercourse	No					
Has this release endangered or does it have a reasonable probability of endangering public health	No					
Has this release substantially damaged or will it substantially damage property or the environment	No					
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No					

Nature and Volume of Release							
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.							
Crude Oil Released (bbls) Details	Not answered.						
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 30 BBL Recovered: 1 BBL Lost: 29 BBL.						
Is the concentration of chloride in the produced water >10,000 mg/l	Yes						
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 315216

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462	a Fe, NM 87505					
QUESTI	IONS (continued)					
Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:					
QUESTIONS	[5]					
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	Yes					
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.					
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.					
	inition immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation 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 asses 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: Aimee Cole Email: acole@ensolum.com					

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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 315216

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 100 and 500 (ft.)						
What method was used to determine the depth to ground water	Attached Document						
Did this release impact groundwater or surface water	No						
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:							
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)						
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Between 1 and 5 (mi.)						
Any other fresh water well or spring	Between 1 and 5 (mi.)						
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 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	Between 1 and 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 provid	ded 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 contami	ination associated 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 milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	8760
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com, which includes the anticipated timelines for beginning and completing the remediation.	upleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	12/07/2023
On what date will (or did) the final sampling or liner inspection occur	01/08/2024
On what date will (or was) the remediation complete(d)	01/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	6000
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	6000
What is the estimated volume (in cubic yards) that will be remediated	1500
These estimated dates and measurements are recognized to be the best guess or calculation	n 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 adjuste	ed 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.

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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 315216

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	R360 Artesia LLC LANDFARM [fEEM0112340644]	
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)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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

Name: Aimee Cole Email: acole@ensolum.com Date: 02/16/2024

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.

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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 315216

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 No submission

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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

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Action 315216

QUESTIONS	(continued)
QUESTIONS:	COHUHUCU <i>1</i>

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded 298788	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/05/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	500

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	6000	
What was the total volume (cubic yards) remediated	1500	
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	6000	
What was the total volume (in cubic yards) reclaimed	1500	
Summarize any additional remediation activities not included by answers (above)	Excavation and soil sampling activities were completed as outlined in the approved Remediation Work Plan for this site.	

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: Aimee Cole
Email: acole@ensolum.com
Date: 02/16/2024

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 7

Action 315216

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	6000	
What was the total volume of replacement material (in cubic yards) for this site	1500	
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.		
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	01/12/2024	
Summarize any additional reclamation activities not included by answers (above)	The excavation was backfilled and seeded with a BLM approved seed mix. Vegetation monitoring will be completed on an annual basis (at a minimum) until vegetation establishment is comparable to off-site conditions. Photographs of the backfilled excavation are provided in Appendix C.	
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form	

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Aimee Cole
Email: acole@ensolum.com
Date: 02/16/2024

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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 8

Action 315216

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 315216

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	315216
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By		Condition Date
nvelez	None	4/10/2024