

November 23, 2022

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 MCA 2A Main Line Incident Number NAPP2225231205 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the MCA 2A Main Line (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water and crude oil within the pasture area 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 NAPP2225231205.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 29, Township 17 South, Range 32 East, in Lea County, New Mexico (32.807923° N, 103.784172° W) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On September 1, 2022, a pipeline leaked due to internal corrosion resulting in the release of approximately 35.1 barrels (bbls) of produced water and 0.4 bbls of crude oil into the surrounding pasture. Released fluids were unable to be recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 8, 2022. The release was assigned Incident Number NAPP2225231205.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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.

Depth to groundwater at the Site is estimated to be between 50 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with

Maverick Permian, LLC Closure Request MCA 2A Main Line

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depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA-12020-POD1 located approximately 3,328 feet northeast of the Site. The groundwater well has a reported depth to groundwater of 81 feet bgs and a total depth of 120 feet bgs. The Site is located on the west flank of Mescalero Ridge. Topography falls steeply off of the caprock and begins to flatten toward the Querecho Plains. Groundwater wells show a clear trend of deeper water (greater than 100 feet bgs) on and near the top of the caprock with a gradual shallowing pattern toward the flatter plains where groundwater is consistently between 50 and 100 feet bgs (Figure 1). Documented depth to water along the caprock range from 130 feet bgs to 202 feet bgs. Groundwater wells at lower elevations on the plains east of the Site document depth to groundwater ranging between 75 feet bgs and 124 feet bgs. Depth to groundwater at the Site likely falls somewhere between this range. Nowhere within 3 miles of the Site has documented groundwater shallower than 50 feet bgs and there are no surface features, such as watercourses, ponds, wetlands, or vegetation indicative of shallow groundwater. The Site is not located in a known karst area, lowering the possibility of voids and conduits for storage of shallow groundwater. Based on the number of wells from the Site, a consistent pattern of depth to groundwater that corresponds to topography and, therefore, underlying geology, and the location along the flank of Mescalero Ridge, it is evident that groundwater is deep and a conservative estimate of between 50 and 100 feet bgs is estimated. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a tributary-Pecos River, located approximately 16 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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 NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

INITIAL SITE ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On September 1, 2022, personnel were at the Site to complete Site assessment activities based on information provided on the Form C-141 and visible surface staining observed in the pasture release area. Four soil samples (SS01 through SS04) were collected within the release extent at a depth of 0.5 feet bgs to assess the lateral extent of the release.



The soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach[®] chloride QuanTab[®] test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil samples SS01 through SS04 indicated TPH and/or chloride concentrations exceeded the reclamation requirement of the pasture area that was affected by the release; thus, excavation activities were warranted to address waste-containing soil. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between September 2, 2022 and October 4, 2022, Ensolum personnel were onsite to oversee excavation activities based on surface staining observed in the pasture release area and laboratory analytical results for SS01 through SS04. Waste-containing soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results. Excavation activities were performed via track-mounted track hoe and transport vehicles. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons and chloride. The excavation was completed to a depth of 4 feet bgs. Photographic documentation is included in Appendix B.

Following removal of waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS16 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation measured approximately 3,250 square feet in areal extent. A total of approximately 485 cubic yards of waste-containing soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

Laboratory analytical results for excavation floor samples FS01 through FS16 and excavation sidewall samples SW01 through SW07 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement where applicable. Laboratory analytical results



are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 1, 2022, release of produced water and crude oil. Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement where applicable. Based on the soil sample analytical results, no further remediation was required. Maverick will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of waste-containing soil supported efforts to reclaim this Site following the September 2022 release. Depth to groundwater has been conservatively estimated to be between 51 feet and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2225231205. The Final C-141 is included in Appendix D.

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

Sincerely, Ensolum, LLC

alli Jennings

Kalei Jennings Senior Scientist

cc: Bryce Wagoner, Maverick Permian, LLC Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix D Final C-141
- Appendix E NMOCD Notifications

Daniel R. Moir, P.G. Senior Managing Geologist





FIGURES

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TABLES

ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 2A Main Line Maverick Natural Resources, LLC Lea County, New Mexico										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Pre	liminary Soil San	nples				
SS01	09/01/2022	0.5	<0.0990	<0.198	<49.9	53.4	<49.9	53.4	53.4	7,610*
SS02	09/01/2022	0.5	<0.100	<0.200	<49.8	107	<49.8	107	107	12,500*
SS03	09/01/2022	0.5	<0.100	0.257	<50.0	252	<50.0	252	252	11,000*
SS04	09/01/2022	0.5	<0.0998	<0.200	<49.9	<49.9	<49.9	<49.9	<49.9	9,620*
				Exc	avation Floor Sa	nples				
FS01	09/28/2022	4	<0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	5,130
FS02	09/28/2022	4	<0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,850
FS03	09/28/2022	4	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5,470
FS04	09/28/2022	4	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	6,700
FS05	09/28/2022	4	<0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	7,390
FS06	10/04/2022	4	<0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	2,300
FS07	10/04/2022	4	<0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,210
FS08	10/04/2022	4	<0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	4,240
FS09	10/04/2022	4	<0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	4,620
FS10	10/04/2022	4	<0.00200	<0.00401	<49.9	201	<49.9	201	201	5,130
FS11	10/04/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	2,530
FS12	10/04/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	4,150
FS13	10/04/2022	4	<0.00199	<0.00398	<49.9	57.3	<49.9	57.3	57.3	3,600
FS14	10/04/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,500
FS15	10/04/2022	4	<0.00198	< 0.00396	<50.0	91.9	<50.0	91.9	91.9	3,190
FS16	10/04/2022	4	<0.00201	<0.00402	<49.8	58.8	<49.8	58.8	58.8	3,180
				Exca	vation Sidewall S	amples				
SW01	10/04/2022	0-4	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	22.9*
SW02	10/04/2022	0-4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	20.7*
SW03	10/04/2022	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	19.7*
SW04	10/04/2022	0-4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	24.1*
SW05	10/04/2022	0-4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	21.8*
SW06	10/04/2022	0-4	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	21.4*
SW07	10/04/2022	0-4	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	22.7*

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Notes:

bgs: below ground surface mg/kg: milligrams per kilogram NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code Grey text represents samples that have been excavated

"indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg"



APPENDIX A

Referenced Well Records

			-					v	J	v	he Stat Sum i		U	r
	WR F	ile Nur	nber: R	A 12020			5	Subb	asin:	RA	Cross Refe	erence:	-	
2	Prima	ry Pur	pose: M	ION M	ONITC	DRΓ	NG V	VELI	- 					
<u>et image list</u>	Prima	ry Stat	tus: Pl	MT PH	ERMIT									
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	Total]	Diversi	on: 0				(Caus	e/Case	: -				
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urrent P	oints of	Diversi	ion		0				(1	NAD83 UTN	1 in meters)			
POD	Points of Number 2020 POD		ion Well Tag	g Source Shallov	Q 64Q1 w 2 2	-		Tws 17S	Rng	NAD83 UTM X 614828	1 in meters) Y 3630954	Other I MW-21	Location De	sc
POD RA 12	Number	<u>91</u>		5	64Q1	-	28		Rng 32E	X	Y		Location De	sc

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

11/23/22 9:39 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarter	s are 1=N	W 2=]	NE 3=S	W 4=SE)			
			(quarte	ers are sm	allest t	o larges	t)	(NAD83 UT	M in meters)	
Well Tag	POD	Number	Q64 Q	216 Q4	Sec	Tws	Rng	Х	Y	
	RA	12020 POD1	2	2 1	28	17S	32E	614828	3630954 🧲	
Driller Lic	ense:	1456	Driller	Compa	ny:	WF	IITE DR	RILLING CO	MPANY	
Driller Na	me:	WHITE, JOHN ((LD)							
Drill Start	Date:	09/24/2013	Drill Fi	nish Da	te:	0	9/25/201	3 Plu	g Date:	
Log File D	ate:	10/07/2013	PCW R	cv Date	:			Soi	irce:	Shallow
Ритр Тур	e:		Pipe Di	scharge	Size	:		Est	imated Yield	:
Casing Siz	ze:	2.00	Depth V	Vell:		12	20 feet	De	pth Water:	81 feet
X	Wate	er Bearing Stratif	fications:	Te	рE	ottom	Descr	iption		
				-	0	111	Sands	tone/Gravel/	Conglomerate	;
				11	1	120	Shale/	/Mudstone/S	iltstone	
X		Casing Per	forations:	Та	p E	ottom				
				2	'5	110				

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POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log











APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

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LINKS

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2877-1

Laboratory Sample Delivery Group: 03D2057023 Client Project/Site: MCA 2A Header Main Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 9/12/2022 9:19:43 AM Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

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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Job ID: 890-2877-1 MCA 2A Header Main Line SDG: 03D2057023	2
	3

GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	N Construction of the second se	
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
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	4.0
CNF	Contains No Free Liquid	13
DER	Duplicate Error Ratio (normalized absolute difference)	

(

Qualifiers

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

Job ID: 890-2877-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2877-1

Receipt

The samples were received on 9/1/2022 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34107 and analytical batch 880-34153 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-2877-1), SS02 (890-2877-2), SS03 (890-2877-3) and SS04 (890-2877-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS01 (890-2877-1), SS02 (890-2877-2), SS03 (890-2877-3) and SS04 (890-2877-4). Elevated reporting limits (RLs) are provided.

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-33565/2-A) and (LCSD 880-33565/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Project/Site: MCA 2A Header Main Line

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

Result Qualifier

<0.0990 U

<0.0990 U

<0.0990 U

<0.198 U

<0.0990 U

<0.198 U

%Recovery Qualifier

80

143 S1+

RL

0.0990

0.0990

0.0990

0.198

0.0990

0.198

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

09/09/22 12:37

09/09/22 12:37

09/09/22 12:37

09/09/22 12:37

09/09/22 12:37

09/09/22 12:37

Prepared

09/09/22 12:37

09/09/22 12:37

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Job ID: 890-2877-1 SDG: 03D2057023

Client Sample ID: SS01

Date Collected: 09/01/22 11:15 Date Received: 09/01/22 13:49

Sample Depth: 0.5

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-2877-1

Analyzed

09/11/22 01:39

09/11/22 01:39

09/11/22 01:39

09/11/22 01:39

09/11/22 01:39

09/11/22 01:39

Analyzed

09/11/22 01:39

09/11/22 01:39

Matrix: Solid

Dil Fac

50

50

50

50

50

50

50

50

Dil Fac

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.198	U	0.198	mg/Kg			09/12/22 09:52	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.4		49.9	mg/Kg			09/06/22 10:41	1
Method: 8015B NM - Diesel Rang	o Organics (D							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg		09/02/22 15:50	09/03/22 03:07	1
(GRO)-C6-C10		0	40.0	ilig/itg		00/02/22 10:00	00/00/22 00:07	
Diesel Range Organics (Over	53.4		49.9	mg/Kg		09/02/22 15:50	09/03/22 03:07	1
C10-C28)				0 0				
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/02/22 15:50	09/03/22 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			09/02/22 15:50	09/03/22 03:07	1
o-Terphenyl	107		70 - 130			09/02/22 15:50	09/03/22 03:07	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7610		49.8	mg/Kg			09/07/22 19:02	10
Client Sample ID: SS02						Lab Sar	nple ID: 890-	2877-2
Date Collected: 09/01/22 11:20								ix: Solid
Date Received: 09/01/22 13:49								
Sample Depth: 0.5								
Method: 8021B - Volatile Organic	Compounds	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100	mg/Kg		09/09/22 12:37	09/11/22 02:00	50
Toluene	<0.100	U	0.100	mg/Kg		09/09/22 12:37	09/11/22 02:00	50

4-Bromofluorobenzene (Surr)	149	S1+	70 - 130		09/09/22 12:37	09/11/22 02:00	50
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.200	U	0.200	mg/Kg	09/09/22 12:37	09/11/22 02:00	50
o-Xylene	<0.100	U	0.100	mg/Kg	09/09/22 12:37	09/11/22 02:00	50
m-Xylene & p-Xylene	<0.200	U	0.200	mg/Kg	09/09/22 12:37	09/11/22 02:00	50
Ethylbenzene	0.160		0.100	mg/Kg	09/09/22 12:37	09/11/22 02:00	50
Toluene	<0.100	U	0.100	mg/Kg	09/09/22 12:37	09/11/22 02:00	50
Denzene	<0.100	0	0.100	ing/kg	09/09/22 12:37	09/11/22 02:00	50

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Released to Imaging: 1/4/2023 12:15:53 PM

Project/Site: MCA 2A Header Main Line

Method: Total BTEX - Total BTEX Calculation

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

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

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

%Recovery

83

<0.200 Ū

107

Result Qualifier

Result Qualifier

Result Qualifier

<49.8 U

107

Qualifier

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

Matrix: Solid

50

Client Sample Results

Limits

70 - 130

RL

RL

49.8

RL

49.8

49.8

0.200

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-2877-1 SDG: 03D2057023

Client Sample ID: SS02

Date Collected: 09/01/22 11:20 Date Received: 09/01/22 13:49

Sample Depth: 0.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

C10-C28) Oll Range Or

Total TPH

Total BTEX

Client: Ensolum

Lab Sample	ID:	890-2877-2
		Matrix: Solid

Analyzed

09/11/22 02:00

Analyzed

09/12/22 09:52

Analyzed

09/06/22 10:41

Analyzed

09/03/22 03:50

09/03/22 03:50

Prepared

09/09/22 12:37

Prepared

Prepared

Prepared

09/02/22 15:50

09/02/22 15:50

D

D

D

5

3

Oll Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg	09/02/22 15:50	09/03/22 03:50	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	122	70 - 130		09/02/22 15:50	09/03/22 03:50	1
o-Terphenyl	117	70 - 130		09/02/22 15:50	09/03/22 03:50	1
Method: 300.0 - Anions, Ion Chro	matography - Soluble Result Qualifier	RI	Unit	D Prenared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12500	100	mg/Kg			09/08/22 11:41	20
Client Sample ID: SS03					Lab Sa	mple ID: 890-	2877-3

Client Sample ID: SS03

Date Collected: 09/01/22 11:25 Date Received: 09/01/22 13:49 Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.100 U 0.100 mg/Kg 09/09/22 12:37 09/11/22 02:20 50 0 100 09/09/22 12:37 09/11/22 02:20 50 mg/Kg Toluene 0.138 0.100 mg/Kg 09/09/22 12:37 09/11/22 02:20 50 Ethylbenzene 0.119 09/09/22 12:37 09/11/22 02:20 m-Xylene & p-Xylene <0.201 U 0.201 50 mg/Kg o-Xylene <0.100 U 0.100 mg/Kg 09/09/22 12:37 09/11/22 02:20 50 Xylenes, Total <0.201 U 0.201 mg/Kg 09/09/22 12:37 09/11/22 02:20 50 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 4-Bromofluorobenzene (Surr) 135 S1+ 09/09/22 12:37 09/11/22 02:20 50 1,4-Difluorobenzene (Surr) 101 70 - 130 09/09/22 12:37 09/11/22 02:20 50 Method: Total BTEX - Total BTEX Calculation Analvte RL D Result Qualifier Unit Prepared Analvzed Dil Fac 0.201 09/12/22 09:52 **Total BTEX** 0.257 mg/Kg 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.0 mg/Kg 09/06/22 10:41 252 1

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Released to Imaging: 1/4/2023 12:15:53 PM

Dil Fac

1

1

1

1

Dil Fac

Dil Fac

20

Client Sample Results

RL

50.0

50.0

50.0

RL

101

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

09/02/22 15:50

09/02/22 15:50

09/02/22 15:50

Prepared

09/02/22 15:50

09/02/22 15:50

Prepared

Job ID: 890-2877-1 SDG: 03D2057023

Client Sample ID: SS03

Date Collected: 09/01/22 11:25 Date Received: 09/01/22 13:49

Sample Depth: 0.5

Gasoline Range Organics

Diesel Range Organics (Over

Client Sample ID: SS04

Date Collected: 09/01/22 11:30

Date Received: 09/01/22 13:49

Sample Depth: 0.5

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

(GRO)-C6-C10

Lab Sample	ID:	890-2877-3
		Matrix: Solid

Analyzed

09/03/22 04:12

09/03/22 04:12

09/03/22 04:12

Analyzed

09/03/22 04:12

09/03/22 04:12

Analyzed

09/08/22 11:46

5

Lab Sample ID: 890-2877-4 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0998	U	0.0998	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
Toluene	0.169		0.0998	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
Ethylbenzene	<0.0998	U	0.0998	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
m-Xylene & p-Xylene	<0.200	U	0.200	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
o-Xylene	<0.0998	U	0.0998	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
Xylenes, Total	<0.200	U	0.200	mg/Kg		09/09/22 12:37	09/11/22 02:40	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130			09/09/22 12:37	09/11/22 02:40	50
1,4-Difluorobenzene (Surr)	80		70 - 130			09/09/22 12:37	09/11/22 02:40	50
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.200	U	0.200	mg/Kg			09/12/22 09:52	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/22 10:41	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/02/22 15:50	09/03/22 03:29	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/02/22 15:50	09/03/22 03:29	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/02/22 15:50	09/03/22 03:29	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	114		70 - 130			09/02/22 15:50	09/03/22 03:29	
							09/03/22 03:29	

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Client: Ensolum

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<50.0 U

252

<50.0 U

%Recovery Qualifier

Result Qualifier

130

116

11000

Project/Site: MCA 2A Header Main Line

		Client	Sample Res	sults					1
Client: Ensolum Project/Site: MCA 2A Header Main Lii	ne						Job ID: 890 SDG: 03D2		2
Client Sample ID: SS04 Date Collected: 09/01/22 11:30						Lab Sa	mple ID: 890- Matri	2877-4 ix: Solid	
Date Received: 09/01/22 13:49 Sample Depth: 0.5									4
Method: 300.0 - Anions, Ion Chron Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	9620		50.1	mg/Kg			09/07/22 19:27	10	
									8
									9
									13

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Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Ac
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2865-A-1-C MS	Matrix Spike	85	92	
90-2865-A-1-D MSD	Matrix Spike Duplicate	116	98	
90-2877-1	SS01	143 S1+	80	
90-2877-2	SS02	149 S1+	83	
390-2877-3	SS03	135 S1+	101	
90-2877-4	SS04	157 S1+	80	
CS 880-34107/1-A	Lab Control Sample	103	107	
CSD 880-34107/2-A	Lab Control Sample Dup	132 S1+	105	
VB 880-34107/5-A	Method Blank	96	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	13
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		14
890-2861-A-1-C MS	Matrix Spike	119	92		
890-2861-A-1-D MSD	Matrix Spike Duplicate	121	97		
890-2877-1	SS01	122	107		
890-2877-2	SS02	122	117		
890-2877-3	SS03	130	116		
890-2877-4	SS04	114	102		
LCS 880-33565/2-A	Lab Control Sample	152 S1+	123		
LCSD 880-33565/3-A	Lab Control Sample Dup	156 S1+	130		
MB 880-33565/1-A	Method Blank	124	117		
Surrogato Logand					

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

5 6

Job ID: 890-2877-1 SDG: 03D2057023

Prep Type: Total/NA

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QC Sample Results

Analysis Batch: 34153

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/09/22 12:37	09/10/22 19:08	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/09/22 12:37	09/10/22 19:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130			09/09/22 12:37	09/10/22 19:08	1

Lab Sample ID: LCS 880-34107/1-A Matrix: Solid

Analysis Batch: 34153

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08977		mg/Kg		90	70 - 130	
Toluene	0.100	0.08000		mg/Kg		80	70 - 130	
Ethylbenzene	0.100	0.07969		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1624		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.09238		mg/Kg		92	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-34107/2-A

Matrix: Solid

Analysis Batch: 34153							Prep	ep Batch: 34107	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09121		mg/Kg		91	70 - 130	2	35
Toluene	0.100	0.08741		mg/Kg		87	70 - 130	9	35
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	26	35
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	26	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2865-A-1-C MS

Matrix: Solid aluaia Batahi 24152

Analysis Batch: 34153									Prep	Batch: 34107
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0998	0.03247	F1	mg/Kg		33	70 - 130	
Toluene	<0.00201	U F1	0.0998	0.03634	F1	mg/Kg		36	70 - 130	

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 34107

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 34107

Furofins	Carls

Client Sample ID: Matrix Spike

QC Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

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

SDG: 03D2057023

Lab Sample ID: 890-2865-A-1-	C MS										Client S	Sample ID	: Matrix	Spike
Matrix: Solid												Prep 1	Type: To	otal/N/
Analysis Batch: 34153												Prep	Batch:	3410
	Sample	Sampl	е	Spike		MS	MS					%Rec		
Analyte	Result	Qualif	ier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00201	U F1 F	2	0.0998	0	0.03705	F1	mg/Kg			37	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1 F	2	0.200	0	0.07196	F1	mg/Kg			36	70 - 130		
o-Xylene	<0.00201	U F1 F	2	0.0998	0	0.04226	F1	mg/Kg			42	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qualif	ier	Limits										
4-Bromofluorobenzene (Surr)	85			70 - 130										
1,4-Difluorobenzene (Surr)	92			70 - 130										
Lab Sample ID: 890-2865-A-1-	D MSD							C	lie	nt Sai	nple ID:	Matrix Sp	oike Du	plicat
Matrix: Solid											-		Type: To	
Analysis Batch: 34153													Batch:	
	Sample	Sampl	е	Spike		MSD	MSD					%Rec		RP
Analyte	Result	Qualif	ier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00201	U F1		0.0996	0	0.04628	F1	mg/Kg			46	70 - 130	35	3
Toluene	<0.00201	U F1		0.0996	0	0.04928	F1	mg/Kg			49	70 - 130	30	3
Ethylbenzene	<0.00201	U F1 F	2	0.0996	0	0.05680	F1 F2	mg/Kg			57	70 - 130	42	3
m-Xylene & p-Xylene	<0.00402	U F1 F	2	0.199		0.1146	F1 F2	mg/Kg			58	70 - 130	46	3
o-Xylene	<0.00201	U F1 F	2	0.0996	0	0.06608	F1 F2	mg/Kg			66	70 - 130	44	3
	MSD	MSD												
Surrogate	%Recovery	Qualif	ier	Limits										
4-Bromofluorobenzene (Surr)	116			70 - 130										
1,4-Difluorobenzene (Surr)	98			70 - 130										
lethod: 8015B NM - Diese	el Range O	rgani	cs (DR	(GC)										
Lab Sample ID: MB 880-33565	5/1 -A									c	lient Sa	mple ID:	Method	Blar
Matrix: Solid													Type: To	
Analysis Batch: 33582													Batch:	
		мв м	ИВ											
Analyte	R		Qualifier		RL		Unit		D	Pre	epared	Analyz	ed	Dil Fa
		<50.0 L			50.0		mg/Kg	g	_		/22 15:50	09/02/22		
Gasoline Range Organics	<							~		00/01		09/02/22	10.12	
Gasoline Range Organics (GRO)-C6-C10					50.0		mall				1.2.2 16.60			
Gasoline Range Organics		<50.0 l	J		50.0		mg/Kg	9		03/01	/22 15:50	09/02/22	19.12	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over					50.0 50.0		mg/Kg	-			/22 15:50 /22 15:50	09/02/22		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	•	<50.0 ເ <50.0 ເ MB M) И В		50.0			-		09/01/	/22 15:50	09/02/22	19:12	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	•	50.0 د 50.0 د MB M	J	Limi	50.0 ts			-		09/01/	/22 15:50	09/02/22 Analyz	19:12	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	•	<50.0 ເ <50.0 ເ MB M) И В		50.0 ts			-	· · · · · · · · · · · · · · · · · · ·	09/01/	/22 15:50	09/02/22	19:12	Dil Fa

Lab Sample ID: LCS 880-33565/2-A

Analysis Batch: 33582							Prep	Batch: 33565
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	846.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	876.5		mg/Kg		88	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Matrix: Solid

QC Sample Results

Limits

70 - 130

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID: LCS 880-33565/2-A

Matrix: Solid

Surrogate

1-Chlorooctane

Analysis Batch: 33582

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

LCS LCS %Recovery Qualifier

152 S1+

	1
Job ID: 890-2877-1 SDG: 03D2057023	2
	3
Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 33565	4
гер Басп. 55565	5
	6
Client Semple ID: Leb Control Semple Dup	7
Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 33565	8
%Rec RPD	Q

Limits

70 - 130

70 - 130

%Rec

86

91

	5
	7
	8
	9
1	

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Client	Sample	ID:	Matrix	Spike
	_	_	_	

Client Sample ID: Matrix Spike Duplicate

Prep	Type: Total	/NA
Dron	Databy 22	ECE

Prep Type: Total/NA

RPD

1

4

o-Terphenyl	123		70 - 130				
Lab Sample ID: LCSD 880-3	3565/3-A					Clier	nt Sam
Matrix: Solid							
Analysis Batch: 33582							
····,····			Spike	LCSD	LCSD		
Analyte			Added	Result	Qualifier	Unit	D
Gasoline Range Organics			1000	858.2		mg/Kg	
(GRO)-C6-C10							
Diesel Range Organics (Over			1000	909.9		mg/Kg	
C10-C28)							
	LCSD	LCSD					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	156	S1+	70 - 130				
o-Terphenyl	130		70 _ 130				

Analysis Batch: 33582									Prep	Batch: 33565
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	989.5		mg/Kg		99	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	999	1046		mg/Kg		105	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	92		70 _ 130

Lab Sample ID: 890-2861-A-1-D MSD Matrix: Solid

Analysis Batch: 33582

Analysis Batch: 33582									Prep	Batch:	33565
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1037		mg/Kg		104	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1069		mg/Kg		107	70 _ 130	2	20
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	97		70 - 130

QC Sample Results

Job ID: 890-2877-1 SDG: 03D2057023

Client: Ensolum Project/Site: MCA 2A Header Main Line

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33690/1-	A							C	lient S	ample ID:		
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 33886												
		MB MB										
Analyte		esult Qualifier		RL	Uni	-	D	Pre	pared	Analyz		Dil Fac
Chloride	<	5.00 U		5.00	mg/	Kg				09/07/22	16:56	1
Lab Sample ID: LCS 880-33690/2	2-A						Cli	ent S	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 33886												
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Chloride			250	261.9		mg/Kg			105	90 - 110		
Lab Sample ID: LCSD 880-33690	/3-A					CI	ient S	Samp	ole ID: L	ab Contro	ol Sampl	le Dup
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 33886												
			Spike	LCSD	LCSD					%Rec		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	261.6		mg/Kg			105	90 - 110	0	20
Lab Sample ID: 890-2875-A-11-C	MS								Client	Sample ID	: Matrix	Spike
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 33886												
	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		<u>D</u>	%Rec	Limits		
Chloride	2300		1240	3640		mg/Kg			108	90 - 110		
Lab Sample ID: 890-2875-A-11-D	MSD						Client	t San	nple ID	: Matrix S	oike Dur	olicate
Matrix: Solid									÷		Type: S	
Analysis Batch: 33886											~ •	
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: Ensolum Project/Site: MCA 2A Header Main Line

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Job ID: 890-2877-1 SDG: 03D2057023

GC VOA

Prep Batch: 34107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2877-1	SS01	Total/NA	Solid	5035	
890-2877-2	SS02	Total/NA	Solid	5035	
890-2877-3	SS03	Total/NA	Solid	5035	
890-2877-4	SS04	Total/NA	Solid	5035	
MB 880-34107/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34107/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34107/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2865-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2865-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34153

LCSD 880-34107/2-A	Lab Control Sample Dup	Iotal/INA	Solia	5035		
890-2865-A-1-C MS	Matrix Spike	Total/NA	Solid	5035		8
890-2865-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 34153						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	10
890-2877-1	SS01	Total/NA	Solid	8021B	34107	
890-2877-2	SS02	Total/NA	Solid	8021B	34107	44
890-2877-3	SS03	Total/NA	Solid	8021B	34107	
890-2877-4	SS04	Total/NA	Solid	8021B	34107	12
MB 880-34107/5-A	Method Blank	Total/NA	Solid	8021B	34107	
LCS 880-34107/1-A	Lab Control Sample	Total/NA	Solid	8021B	34107	40
LCSD 880-34107/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34107	13
890-2865-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	34107	
890-2865-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34107	14

Analysis Batch: 34239

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2877-1	SS01	Total/NA	Solid	Total BTEX	
890-2877-2	SS02	Total/NA	Solid	Total BTEX	
890-2877-3	SS03	Total/NA	Solid	Total BTEX	
890-2877-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 33565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2877-1	SS01	Total/NA	Solid	8015NM Prep	
890-2877-2	SS02	Total/NA	Solid	8015NM Prep	
890-2877-3	SS03	Total/NA	Solid	8015NM Prep	
890-2877-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-33565/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33565/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2861-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2861-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33582

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2877-1	SS01	Total/NA	Solid	8015B NM	33565
890-2877-2	SS02	Total/NA	Solid	8015B NM	33565
890-2877-3	SS03	Total/NA	Solid	8015B NM	33565
890-2877-4	SS04	Total/NA	Solid	8015B NM	33565
MB 880-33565/1-A	Method Blank	Total/NA	Solid	8015B NM	33565
LCS 880-33565/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33565

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: MCA 2A Header Main Line

GC Semi VOA (Continued)

Analysis Batch: 33582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33565
890-2861-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	33565
890-2861-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33565
Analysis Batch: 33836					

atcn: 33836

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
890-2877-1	SS01	Total/NA	Solid	8015 NM	
890-2877-2	SS02	Total/NA	Solid	8015 NM	
890-2877-3	SS03	Total/NA	Solid	8015 NM	
890-2877-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 33690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2877-1	SS01	Soluble	Solid	DI Leach	
890-2877-2	SS02	Soluble	Solid	DI Leach	
890-2877-3	SS03	Soluble	Solid	DI Leach	
890-2877-4	SS04	Soluble	Solid	DI Leach	
MB 880-33690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2875-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2875-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 33886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2877-1	SS01	Soluble	Solid	300.0	33690
890-2877-2	SS02	Soluble	Solid	300.0	33690
890-2877-3	SS03	Soluble	Solid	300.0	33690
890-2877-4	SS04	Soluble	Solid	300.0	33690
MB 880-33690/1-A	Method Blank	Soluble	Solid	300.0	33690
LCS 880-33690/2-A	Lab Control Sample	Soluble	Solid	300.0	33690
LCSD 880-33690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33690
890-2875-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	33690
890-2875-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	33690

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Job ID: 890-2877-1

SDG: 03D2057023

Project/Site: MCA 2A Header Main Line

Job ID: 890-2877-1 SDG: 03D2057023

Lab Sample ID: 890-2877-1 Matrix: Solid

Client Sample ID: SS01 Date Collected: 09/01/22 11:15 Date Received: 09/01/22 13:49

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34107	09/09/22 12:37	MR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	34153	09/11/22 01:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34239	09/12/22 09:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33836	09/06/22 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33565	09/02/22 15:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33582	09/03/22 03:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33690	09/03/22 13:21	KS	EET MID
Soluble	Analysis	300.0		10			33886	09/07/22 19:02	СН	EET MID

Client Sample ID: SS02

Date Collected: 09/01/22 11:20

Date Received: 09/01/22 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34107	09/09/22 12:37	MR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	34153	09/11/22 02:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34239	09/12/22 09:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33836	09/06/22 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33565	09/02/22 15:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33582	09/03/22 03:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33690	09/03/22 13:21	KS	EET MID
Soluble	Analysis	300.0		20			33886	09/08/22 11:41	СН	EET MID

Client Sample ID: SS03

Date Collected: 09/01/22 11:25

Date Received: 09/01/22 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	34107	09/09/22 12:37	MR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	34153	09/11/22 02:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34239	09/12/22 09:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33836	09/06/22 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33565	09/02/22 15:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33582	09/03/22 04:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33690	09/03/22 13:21	KS	EET MID
Soluble	Analysis	300.0		20			33886	09/08/22 11:46	СН	EET MID

Client Sample ID: SS04 Date Collected: 09/01/22 11:30 Date Received: 09/01/22 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34107	09/09/22 12:37	MR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	34153	09/11/22 02:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34239	09/12/22 09:52	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2877-4

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Lab Sample ID: 890-2877-2 Matrix: Solid

Matrix: Solid

Project/Site: MCA 2A Header Main Line

Job ID: 890-2877-1 SDG: 03D2057023

Matrix: Solid

Lab Sample ID: 890-2877-4

Client Sample ID: SS04 Date Collected: 09/01/22 11:30

Client: Ensolum

Date Received: 09/01/22 13:49

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33565	09/02/22 15:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33582	09/03/22 03:29	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33690	09/03/22 13:21	KS	EET MID
Soluble	Analysis	300.0		10			33886	09/07/22 19:27	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 1/4/2023 12:15:53 PM
Accreditation/Certification Summary

	Δ	Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: MCA 2A H	eader Main Line			Job ID: 890-2877-1 SDG: 03D2057023	2
Laboratory: Eurofi	ns Midland				
Unless otherwise noted, all an	nalytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	5
The following analytes a	are included in this report, bu	It the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off		•• • •			
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

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Project/Site: MCA 2A Header Main Line

Job ID: 890-2877-1 SDG: 03D2057023

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
0.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
l Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

Client: Ensolum

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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Job ID: 890-2877-1 SDG: 03D2057023

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-2877-1	SS01	Solid	09/01/22 11:15	09/01/22 13:49		_ 7
390-2877-2	SS02	Solid	09/01/22 11:20	09/01/22 13:49	0.5	
390-2877-3	SS03	Solid	09/01/22 11:25	09/01/22 13:49	0.5	
390-2877-4	SS04	Solid	09/01/22 11:30	09/01/22 13:49	0.5	
						1

Date/Time			1-28 13402	9	B	LIARU	Q	tren	Conta
	 Received by: (Signature) 	Relinquished by: (Signature)	Date/Time	>	Received by: (Signature)		nature)	by: (Sigr	Relinquished by: (Signature)
	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 \$86.00 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.	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 a 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 d 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 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	mpany to Eurofins Xen y losses or expenses in submitted to Eurofins Xe	order from client c esponsibility for ar 5 for each sample	titutes a valid purchase of shall not assume any r project and a charge of \$	of samples cons st of samples an applied to each	nt and relinquishment Bilable only for the co Narge of \$85.00 will be	his documer (enco will be minimum ct	otice: Signature of ti f service. Eurofins X f Eurofins Xenco. A
Sn U V Zn 1470 / 7471	Na Sr TI 31/245.1/7	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Sc	Sb As Ba Be B (Sb As Ba Be Cd	Texas 11 AI S 010: 8RCRA	8RCRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	/zed 8	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	6010) and Met	Total 200.7 / 6010 Circle Method(s) and I
				-+-	Turt				
				a. 1 27					
			× × ×	Grab/ 1	11:30 0.5	9.1.22	s	SS04	s
Incident Numbers	Inc		×	Grab/ 1	11:25 0.5'	9.1.22	S	SS03	S
			× × ×	Grab/ 1	11:20 0.5'	9.1.22	s	SS02	S
			× × ×	Grab/ 1	11:15 0.5'	9.1.22	s	SS01	s
Sample Comments	San		CHLO TPH (8 BTEX	Grab/ # of Comp Cont	Time Depth Sampled	Date Sampled	on Matrix	dentificati	Sample Identification
NaUH+Ascoroic Acid: SAPC	I NaOH+A		3015	4 I `	mperature: 12, 4	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn	Approximate a series of the se	890-2877 Chain of Custody			2.6	Temperature Reading:	Yes NO NIA	Seals:	Sample Custody Seals:
NaSO ₃	Na ₂ S ₂ O ₃ : NaSO ₃		PA:		actor: -O.J	Correction Factor:	Yes NO NIA	eals:	Cooler Custody Seals:
NABIS	NaHSO4: NABIS		300		FOOMAL :OI	Thermometer ID:	(Yes) No	d Intact:	Samples Received Intact:
ē	H ₃ PO ₄ : HP		.0)	Z nete	Wet Ice: A Yes	Yes No	Temp Blank:	EIPT	SAMPLE RECEIPT
2 NaOH: Na	H ₂ S0 ₄ : H ₂			L	the lab, if received by 4:30pm			_	CC #:
HNO3: HN	НСГ. НС			ived by	heo		Gilbert Moreno		Sampler's Name:
	Cool: Cool			TAT	Due Date: 5 Day TAT				Project Location:
D DI Water: H ₂ O	None: NO			Code	Routine 🔲 Rush	G	0302057025	03	Project Number:
Preservative Codes		ANALYSIS REQUEST			Turn Around	ain Line	MCA 2A Header Main Line	2	Project Name:
Other:	Deliverables: EDD		oom	kjennings@ensolum.com	Email: kjennin		817-683-2503	817-6	Phone:
			Carlsbad, NM 88220		City, State ZIP:		Carlsbad, NM 88220	Carlst	City, State ZIP:
]	State of Project:		3122 National Parks HWY		Address:	AMF	3122 National Parks HWY	3122	Address:
RRC 🗌 Superfur	Program: UST/PST 🔲 PRP 🗍 Brownfields 🗌 RRC 📔 Superfund 🗍	9	Ensolum		Compar		um	Ensolum	Company Name:
fs	Work Order Comments		Kalei Jennings	Bill to: (if different)	Bill to: (i		Kalei Jennings	Kalei	Project Manager:
l of l	www.xenco.com Page	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	75) 392-7550, Carlsba	Hobbs, NM (5					
	Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	2) 704-5440, San Anto	Midland, TX (43	sting	Environment Testing			ſ
		5. TX (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston. TX				eurofins	eur

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12 13 14

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Job Number: 890-2877-1 SDG Number: 03D2057023

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2877 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.	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	

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

Job Number: 890-2877-1 SDG Number: 03D2057023

List Source: Eurofins Midland

List Creation: 09/02/22 10:54 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2877 List Number: 2 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	

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

14

Received by OCD: 11/29/2022 4:34:48 PM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3102-1

Client Project/Site: MCA 2A Header Main Line

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

VRAMER

Authorized for release by: 10/3/2022 11:02:57 AM

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

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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Definitions/Glossary

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Deminionereredary		
	Job ID: 890-3102-1	2
		3
•		
-		
		5
Indicates the analyte was analyzed for but not detected.		
Qualifier Description		
MS and/or MSD recovery exceeds control limits.		
Surrogate recovery exceeds control limits, low biased.		8
Indicates the analyte was analyzed for but not detected.		
		Q
Qualifier Description		
MS and/or MSD recovery exceeds control limits.		
Indicates the analyte was analyzed for but not detected.		
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		
Percent Recovery		4
Contains Free Liquid		
Colony Forming Unit		
Contains No Free Liquid		
Duplicate Error Ratio (normalized absolute difference)		
Dilution Factor		
Detection Limit (DoD/DOE)		
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
Decision Level Concentration (Radiochemistry)		
Estimated Detection Limit (Dioxin)		
Limit of Detection (DoD/DOE)		
Limit of Quantitation (DoD/DOE)		
EPA recommended "Maximum Contaminant Level"		
Minimum Detectable Activity (Radiochemistry)		
Minimum Detectable Concentration (Radiochemistry)		
Method Detection Limit		
	A 2A Header Main Line	A 24 Header Main Line CA2 Header Main Line CA2 Header Main Line CA3 CA3 Header Main Line CA3 CA3 Address Mathematical Cases Ca

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

ML

MPN

MQL

NC

ND NEG

POS

PQL

PRES

QC

RL RPD

TEF

TEQ

TNTC

RER

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3102-1

Receipt

The samples were received on 9/28/2022 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35872 and analytical batch 880-35873 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS03 (890-3102-3). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3075-A-1-B), (890-3075-A-1-C MS) and (890-3075-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35805 and analytical batch 880-35863 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35800 and analytical batch 880-35828 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.

Job ID: 890-3102-1

RL

0.00198

0.00198

Unit

mg/Kg

mg/Kg

D

Prepared

10/01/22 09:43

10/01/22 09:43

Result Qualifier

<0.00198 U

<0.00198 U

Job ID: 890-3102-1

Client: Ensolum
Project/Site: MCA 2A Header Main Line

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: FS01

Date Collected: 09/28/22 08:30 Date Received: 09/28/22 16:21

Sample Depth: 4'

Analyte

Benzene

Toluene

Lab Sample ID: 890-3102-1

Analyzed

10/01/22 13:52

10/01/22 13:52

Matrix: Solid

1

1

Toluene	~0.00190	0	0.00190	mg/rtg		10/01/22 09.45	10/01/22 13.32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/01/22 09:43	10/01/22 13:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/01/22 09:43	10/01/22 13:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/01/22 09:43	10/01/22 13:52	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/01/22 09:43	10/01/22 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/01/22 09:43	10/01/22 13:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/01/22 09:43	10/01/22 13:52	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/02/22 08:55	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/03/22 11:31	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/22 11:17	10/01/22 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/22 11:17	10/01/22 15:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/22 11:17	10/01/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			09/30/22 11:17	10/01/22 15:49	1
o-Terphenyl	81		70 - 130			09/30/22 11:17	10/01/22 15:49	1
Method: 300.0 - Anions, Ion Cl	nromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5130	F1	50.5	mg/Kg			09/30/22 16:33	10
Client Sample ID: FS02						Lab San	nple ID: 890-	-3102-2
Date Collected: 09/28/22 08:35							Matr	ix: Solid
Date Received: 09/28/22 16:21								
Sample Depth: 4'								
Method: 8021B - Volatile Organ	nic Compounds							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/01/22 09:43	10/01/22 14:12	1
Toluene	<0.00199		0.00199	mg/Kg		10/01/22 09:43	10/01/22 14:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/01/22 09:43	10/01/22 14:12	1
m-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		10/01/22 09:43	10/01/22 14:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/01/22 09:43	10/01/22 14:12	1
X I								

Xylenes, Total <0.00398 U 0.00398 10/01/22 09:43 10/01/22 14:12 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 103 70 - 130 10/01/22 09:43 10/01/22 14:12

Eurofins Carlsbad

1

1

Job ID: 890-3102-1

Matrix: Solid

5

Lab Sample ID: 890-3102-2

Client: Ensolum
Project/Site: MCA 2A Header Main Line

Client Sample ID: FS02

Date Collected: 09/28/22 08:35 Date Received: 09/28/22 16:21

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	90		70 - 130			10/01/22 09:43	10/01/22 14:12	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/02/22 08:55	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			10/03/22 11:31	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:11	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:11	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	112		70 - 130			09/30/22 11:17	10/01/22 16:11	
o-Terphenyl	101		70 - 130			09/30/22 11:17	10/01/22 16:11	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5850		50.2	mg/Kg			09/30/22 16:48	1

Client Sample ID: FS03

Date Collected: 09/28/22 08:40 Date Received: 09/28/22 16:21

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/01/22 09:43	10/01/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			10/01/22 09:43	10/01/22 14:33	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130			10/01/22 09:43	10/01/22 14:33	1
– Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/02/22 08:55	1
-								
Method: 8015 NM - Diesel Range	Organics (DR	\mathbf{O}						
Method: 8015 NM - Diesel Range Analyte	- · ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

50.2 mg/Kg 09/30/22 16:48 10

Lab Sample ID: 890-3102-3

Matrix: Solid

Released to Imaging: 1/4/2023 12:15:53 PM

RL

50.0

50.0

50.0

Limits

Unit

mg/Kg

mg/Kg

mg/Kg

D

Prepared

09/30/22 11:17

09/30/22 11:17

09/30/22 11:17

Prepared

Dil Fac

1

1

1

Dil Fac

Job ID: 890-3102-1

Client: Ensolum	
Project/Site: MCA 2A Header Main Line	

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

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

Client Sample ID: FS03

Date Collected: 09/28/22 08:40 Date Received: 09/28/22 16:21

Sample Depth: 4'

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

(GRO)-C6-C10

Lab Sample	ID:	890-3102-3
		Matrix: Solid

Analyzed

10/01/22 16:32

10/01/22 16:32

10/01/22 16:32

Analvzed

5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			09/30/22 11:17	10/01/22 16:32	1
o-Terphenyl	85		70 - 130			09/30/22 11:17	10/01/22 16:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5470		50.3	mg/Kg			09/30/22 16:52	10
lient Sample ID: FS04						Lah San	nple ID: 890-	3102-4
Date Collected: 09/28/22 08:45						Lub Oun		x: Solid
Date Received: 09/28/22 16:21								
Sample Depth: 4'								
Method: 8021B - Volatile Organio	compounds ((6C)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:54	1
Toluene	< 0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/01/22 09:43	10/01/22 14:54	
o-Xylene	< 0.00200		0.00200	mg/Kg		10/01/22 09:43	10/01/22 14:54	1
Xylenes, Total	<0.00399		0.00399	mg/Kg		10/01/22 09:43	10/01/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/01/22 09:43	10/01/22 14:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/01/22 09:43	10/01/22 14:54	1
- Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/02/22 08:55	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/03/22 11:31	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:54	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:54	1
C10-C28)				0.0				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/22 11:17	10/01/22 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/30/22 11:17	10/01/22 16:54	1
o-Terphenyl	89		70 - 130			09/30/22 11:17	10/01/22 16:54	1

Client: Ensolum

Client Sample Results

Job ID: 890-3102-1

ient Sample ID: FS04						Lab San	nple ID: 890-3	3102-4
ate Collected: 09/28/22 08:45							-	x: Solid
ate Received: 09/28/22 16:21								
ample Depth: 4'								
Method: 300.0 - Anions, Ion Chr					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6700		49.9	mg/Kg			09/30/22 16:57	10
lient Sample ID: FS05						Lab San	nple ID: 890-3	3102-5
ate Collected: 09/28/22 08:50								x: Solid
Date Received: 09/28/22 16:21								
ample Depth: 4'								
-								
Method: 8021B - Volatile Organi								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200		0.00200	mg/Kg		10/01/22 09:43	10/01/22 15:15	1
	< 0.00200		0.00200	mg/Kg		10/01/22 09:43	10/01/22 15:15	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		10/01/22 09:43 10/01/22 09:43	10/01/22 15:15 10/01/22 15:15	1
m-Xylene & p-Xylene o-Xylene	<0.00400 <0.00200		0.00400 0.00200	mg/Kg mg/Kg		10/01/22 09:43	10/01/22 15:15	1
Xylenes, Total	<0.00200		0.00400	mg/Kg		10/01/22 09:43	10/01/22 15:15	1
Ayienes, iotai	~0.00400	0	0.00400	iiig/ixg		10/01/22 09.45	10/01/22 13.13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/01/22 09:43	10/01/22 15:15	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/01/22 09:43	10/01/22 15:15	1
Method: Total BTEX - Total BTEX		0 110			_			
Analyte Total BTEX		Qualifier	RL 0.00400	Unit	D	Prepared	Analyzed 10/02/22 08:55	Dil Fac
	<0.00400	0	0.00400	mg/Kg			10/02/22 06:55	I
-	Organica (DB)	O) (GC)						
Method: 8015 NM - Diesel Range	e Organics (DR)							
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 10/03/22 11:31	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U			<u> </u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	ge Organics (D	Qualifier U RO) (GC)	50.0	mg/Kg			10/03/22 11:31	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	ge Organics (D Result	Qualifier U RO) (GC) Qualifier	50.0 RL	mg/Kg Unit	<u>D</u>	Prepared	10/03/22 11:31 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			10/03/22 11:31	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result State S	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 09/30/22 11:17	10/03/22 11:31 Analyzed 10/01/22 17:37	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0 RL	mg/Kg Unit		Prepared	10/03/22 11:31 Analyzed	1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D) Result State S	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 09/30/22 11:17	10/03/22 11:31 Analyzed 10/01/22 17:37	1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U U	S0.0 RL 50.0 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang 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 RO) (GC) Qualifier U U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17 Prepared	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U U	50.0 RL 50.0 50.0 50.0 50.0 50.0 50.0 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17 Prepared 09/30/22 11:17	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37 Analyzed 10/01/22 17:37	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1
Analyte Total TPH Method: 8015B NM - Diesel Rang 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 RO) (GC) Qualifier U U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17 Prepared	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang 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 <50.0	Qualifier U RO) (GC) Qualifier U U U Qualifier	50.0 RL 50.0 50.0 50.0 50.0 50.0 50.0 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17 Prepared 09/30/22 11:17	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37 Analyzed 10/01/22 17:37	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U U Qualifier	50.0 RL 50.0 50.0 50.0 50.0 50.0 50.0 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/30/22 11:17 09/30/22 11:17 09/30/22 11:17 Prepared 09/30/22 11:17	Analyzed 10/03/22 11:31 Analyzed 10/01/22 17:37 10/01/22 17:37 10/01/22 17:37 Analyzed 10/01/22 17:37	1 Dil Fac 1 1 1 1 Dil Fac 1

Job ID: 890-3102-1

Prep Type: Total/NA

Prep Type: Total/NA

Client: Ensolum Project/Site: MCA 2A Header Main Line

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-19424-A-1-J MS	Matrix Spike	94	90		
880-19424-A-1-K MSD	Matrix Spike Duplicate	99	93		
890-3102-1	FS01	108	93		- 22
890-3102-2	FS02	103	90		
890-3102-3	FS03	79	59 S1-		
890-3102-4	FS04	105	93		
890-3102-5	FS05	103	96		
LCS 880-35872/1-A	Lab Control Sample	83	91		
LCS 880-35872/2-A	Lab Control Sample	86	89		
MB 880-35872/5-A	Method Blank	81	73		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Μ	atr	ix:	Sol	id

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3075-A-1-C MS	Matrix Spike	69 S1-	62 S1-
890-3075-A-1-D MSD	Matrix Spike Duplicate	68 S1-	62 S1-
890-3102-1	FS01	89	81
890-3102-2	FS02	112	101
890-3102-3	FS03	94	85
890-3102-4	FS04	98	89
890-3102-5	FS05	96	87
LCS 880-35805/2-A	Lab Control Sample	95	91
LCSD 880-35805/3-A	Lab Control Sample Dup	109	103
MB 880-35805/1-A	Method Blank	109	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: MCA 2A Header Main Line

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 35873 Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec	Analyzed 10/01/22 11:46 10/01/22 11:40 10 11:40 11:40 11:40 12:0 13:0 13:0	Dil Fa
Analyte Result Qualifier RL Unit D Prepared Benzene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 Toluene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 Ethylbenzene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 o-Xylene & p-Xylene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 o-Xylene & p-Xylene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 o-Xylene & c0.00403 U 0.00403 mg/Kg 10/01/22 09:43 Xylenes, Total <0.00403 U 0.00403 mg/Kg 10/01/22 09:43 Surrogate %Recovery Qualifier Limits To - 130 10/01/22 09:43 1.4-Difluorobenzene (Surr) 81 70 - 130 10/01/22 09:43 10/01/22 09:43 1.4-Difluorobenzene (Surr) 73 70 - 130 10/01/22 09:43 10/01/22 09:43 Lab Sample ID: LCS 880-35872/1-A Matrix: Solid Nanalysis Batch: 35873	10/01/22 11:46 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/22 11:40 10/01/	Dil F. Samp Total/N
Benzene <0.00202	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 VRep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Dil F. Samp Total/N
Toluene <0.00202	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
Ethylbenzene <0.00202 U 0.00202 mg/Kg 10/01/22 09:43 m-Xylene & p-Xylene <0.00403	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 10: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 10/01/22 09:43 o-Xylene <0.00202	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 <i>Analyzed</i> 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
o-Xylene <0.00202	10/01/22 11:46 10/01/22 11:46 <i>Analyzed</i> 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
Xylenes, Total <0.00403 U 0.00403 mg/Kg 10/01/22 09:43 Surrogate %Recovery Qualifier Limits Prepared 4-Bromofiluorobenzene (Surr) 81 70 - 130 10/01/22 09:43 1,4-Difluorobenzene (Surr) 73 70 - 130 10/01/22 09:43 Lab Sample ID: LCS 880-35872/1-A Client Sample Client Sample Matrix: Solid Analysis Batch: 35873 Client Sample Analyte Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 108 70 108 70 108 70 108 70	10/01/22 11:46 <u>Analyzed</u> 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batcl %Rec Limits 70 - 130 70 - 130	Samp Total/N
MB MB MB Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 81 70 - 130 10/01/22 09:43 1,4-Difluorobenzene (Surr) 73 70 - 130 10/01/22 09:43 Lab Sample ID: LCS 880-35872/1-A Client Sample Matrix: Solid Analysis Batch: 35873 Client Sample Analyte Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 87 Toluene 0.0992 0.08595 mg/Kg 87 Ethylbenzene 0.198 0.1632 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 81 LCS LCS LCS 81 81	Analyzed 10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
Surrogate 4-Bromofluorobenzene (Surr)%Recovery 81QualifierLimits 70 - 130Prepared1,4-Difluorobenzene (Surr)7370 - 13010/01/22 09:43Lab Sample ID: LCS 880-35872/1-A Matrix: Solid Analysis Batch: 35873Client SampleAnalyteAddedResult 0.0992QualifierMatrix: Solid Benzene0.09920.1075mg/KgToluene0.09920.08595mg/Kg81Toluene0.09920.08026mg/Kg81m-Xylene & p-Xylene0.1980.1632mg/Kg81LCS LCS0.09920.08000mg/Kg81	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
4-Bromofluorobenzene (Surr) 81 70 - 130 10/01/22 09:43 1,4-Difluorobenzene (Surr) 73 70 - 130 10/01/22 09:43 Lab Sample ID: LCS 880-35872/1-A Client Sample Matrix: Solid Analysis Batch: 35873 Client Sample Analyte Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 108 Toluene 0.0992 0.08595 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 81 LCS LCS LCS LCS LCS LCS S1 S1 S1	10/01/22 11:46 10/01/22 11:46 10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Samp Total/N
1,4-Difluorobenzene (Surr) 73 70 - 130 10/01/22 09:43 Lab Sample ID: LCS 880-35872/1-A Client Sample Matrix: Solid Analysis Batch: 35873 Analyte Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 108 Toluene 0.0992 0.08595 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81 LCS LCS LCS LCS	10/01/22 11:46 ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Total/N
Lab Sample ID: LCS 880-35872/1-A Matrix: Solid Analysis Batch: 35873 Analyte Server Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 108 Toluene 0.0992 0.08595 mg/Kg 87 Ethylbenzene 0.0992 0.08026 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81	ID: Lab Control Prep Type: 1 Prep Batch %Rec Limits 70 - 130 70 - 130	Total/N
Matrix: Solid Analysis Batch: 35873 Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec	Limits 70 - 130	Total/N
Matrix: Solid Analysis Batch: 35873 Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec	Limits 70 - 130	Total/N
Analysis Batch: 35873 Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec	Prep Batch %Rec Limits 70 - 130 70 - 130	
Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec 108 Benzene 0.0992 0.1075 mg/Kg 87 108<	%Rec Limits 70 - 130 70 - 130	
Analyte Added Result Qualifier Unit D %Rec Benzene 0.0992 0.1075 mg/Kg 108 108 Toluene 0.0992 0.08595 mg/Kg 87 Ethylbenzene 0.0992 0.08026 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81	Limits 70 - 130 70 - 130	
Benzene 0.0992 0.1075 mg/Kg 108 Toluene 0.0992 0.08595 mg/Kg 87 Ethylbenzene 0.0992 0.08026 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81	70 - 130 70 - 130	
Toluene 0.0992 0.08595 mg/Kg 87 Ethylbenzene 0.0992 0.08026 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81	70 - 130	
Ethylbenzene 0.0992 0.08026 mg/Kg 81 m-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81		
w-Xylene & p-Xylene 0.198 0.1632 mg/Kg 82 o-Xylene 0.0992 0.08000 mg/Kg 81 LCS LCS <thl< th=""> <thl< td=""><td></td><td></td></thl<></thl<>		
D-Xylene 0.0992 0.08000 mg/Kg 81	70 - 130	
LCS LCS	70 - 130	
	70 - 130	
Surrogate %Recovery QualifierLimits		
4-Bromofluorobenzene (Surr) 83 70 - 130		
1,4-Difluorobenzene (Surr) 91 70 - 130		
Lab Sample ID: LCS 880-35872/2-A Client Sample	ID: Lab Control	Samp
Matrix: Solid	Prep Type: 1	-
Analysis Batch: 35873	Prep Batch	
Spike LCS LCS	%Rec	
Analyte Added Result Qualifier Unit D %Rec	Limits	
Benzene 0.0998 0.1130 mg/Kg 113	70 - 130	
Toluene 0.0998 0.09192 mg/Kg 92	70 - 130	
Ethylbenzene 0.0998 0.08592 mg/Kg 86	70 - 130	
m-Xylene & p-Xylene 0.200 0.1718 mg/Kg 86	70 - 130	
o-Xylene 0.0998 0.08346 mg/Kg 84	70 - 130	
LCS LCS Surrogate %Recovery Qualifier Limits		
4-Bromofluorobenzene (Surr) 86 70 - 130		
1,4-Difluorobenzene (Surr) 89 70 - 130		
Lab Sample ID: 880-19424-A-1-J MS Client S	Comple ID: Mate	dy Coll
	Sample ID: Matr	
Matrix: Solid	Prep Type:	
Analysis Batch: 35873	Prep Batch	11: 3587
Comple Comple Outline MO MO	% Dee	
Sample Sample Spike MS MS	%Rec	
Analyte Result Qualifier Added Result Qualifier Unit D %Rec	Limits	

QC Sample Results

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.07730

0.1596

0.07839

Spike

Added

0.100

0.200

0.100

Limits

70 - 130

70 - 130

70 - 130

70 - 130

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

Sample Sample

<0.00398 U F1 F2

<0.00199 U F1 F2

MS MS

94

90

99

93

<0.00199

%Recovery

Result Qualifier

U F1 F2

Qualifier

Lab Sample ID: 880-19424-A-1-J MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 35873

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 35872

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Pren Batch: 35872

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

77

80

78

D

Matrix: Solid Analysis Batch: 35873

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-19424-A-1-K MSD

Analysis Datch. 55075								Fieh	Datch.	33072		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U F1 F2	0.100	0.02363	F1 F2	mg/Kg		24	70 - 130	115	35	
Toluene	<0.00199	U F1 F2	0.100	0.02150	F1 F2	mg/Kg		21	70 - 130	115	35	Ē
Ethylbenzene	<0.00199	U F1 F2	0.100	0.01611	F1 F2	mg/Kg		16	70 - 130	131	35	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.01537	F1 F2	mg/Kg		8	70 - 130	165	35	ī.
o-Xylene	<0.00199	U F1 F2	0.100	0.01660	F1 F2	mg/Kg		17	70 - 130	130	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									

Method: 8015B N	M - Diesel R	ange Organics	(DRO) (GC)
		ange ergamet	

Lab Sample ID: MB 880-35805/1-A Matrix: Solid Analysis Batch: 35863	MD	МВ				Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analyte	MB Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/22 11:17	10/01/22 11:52	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/30/22 11:17	10/01/22 11:52	1
o-Terphenyl	99		70 - 130			09/30/22 11:17	10/01/22 11:52	1
Lab Sample ID: LCS 880-35805/2-A					c	lient Sample I	D: Lab Control	Sample

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 35863 Prep Batch: 35805 Spike LCS LCS %Rec Analyte Added Qualifier Result Unit D %Rec Limits 1000 812.7 81 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 888.2 mg/Kg 89 70 - 130 C10-C28)

Eurofins Carlsbad

Released to Imaging: 1/4/2023 12:15:53 PM

QC Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

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

Lab Sample ID: LCS 880-358 Matrix: Solid	05/2-A						Client	Sample	e ID: Lab Co Prep T	ontrol Sa Type: To	
Analysis Batch: 35863										Batch:	
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	95	quanter	70 - 130								
o-Terphenyl	91		70 - 130								
o-reiphenyi	51		70 - 750								
Lab Sample ID: LCSD 880-35	805/3-A					Clier	nt Sam	ple ID:	Lab Contro	Sampl	e Du
Matrix: Solid										· ype: To	
Analysis Batch: 35863										Batch:	
			Spike	LCSD	LCSD				%Rec		RF
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Gasoline Range Organics (GRO)-C6-C10			1000	956.4		mg/Kg		96	70 - 130	16	
Diesel Range Organics (Over C10-C28)			1000	991.8		mg/Kg		99	70 - 130	11	:
	1000	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane	109	Quanner	70 - 130								
o-Terphenyl	103		70 - 130								
	100		102100								
Lab Sample ID: 890-3075-A-1	-C MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid										ype: To	
Analysis Batch: 35863										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	998	603.9	F1	mg/Kg		61	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)	188	F1	998	466.6	F1	mg/Kg		28	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	69	S1-	70 - 130								
o-Terphenyl	62	S1-	70 - 130								
-											
Lab Sample ID: 890-3075-A-1	-D MSD					Cl	ient Sa	ample IE): Matrix Sp		
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 35863									Prep	Batch:	3580
	Sample	Sample	Spike	MSD	MSD				%Rec		RF
Analyte	Result	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10		U F1	999	573.3		mg/Kg		57	70 - 130	5	2
Diesel Range Organics (Over C10-C28)	188	F1	999	464.2	F1	mg/Kg		28	70 - 130	1	2
	MSD	MSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane	68	S1-	70 - 130								

Job ID: 890-3102-1

QC Sample Results

Job ID: 890-3102-1

Client: Ensolum Project/Site: MCA 2A Header Main Line

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35800/1-A Matrix: Solid									CII	ent S	ample ID: I	vietnoa Type: S	
Analysis Batch: 35828											Tich	Type. O	orubie
		мв	МВ										
Analyte	R	esult	Qualifier		RL	Un	it	D	Prepa	red	Analyz	ed	Dil Fa
Chloride	<	\$.00	U		5.00	mg	g/Kg				09/30/22	16:19	1
Lab Sample ID: LCS 880-35800/2-A								Clie	ent Sa	mple	ID: Lab Co	ontrol S	ample
Matrix: Solid										÷.,		Type: S	
Analysis Batch: 35828													
				Spike	LCS	LCS					%Rec		
Analyte				Added	Resul	Qualifie	r Unit		D %	Rec	Limits		
Chloride				250	246.0)	mg/Kg			98	90 - 110		
Lab Sample ID: LCSD 880-35800/3-	-A						CI	ient S	ample	ID: I	Lab Contro	l Sampl	e Du
Matrix: Solid												Type: S	
Analysis Batch: 35828													
				Spike	LCSI	LCSD					%Rec		RPD
Analyte				Added	Resul	Qualifie	r Unit		D %	Rec	Limits	RPD	Limi
Chloride				250	247.0)	mg/Kg			99	90 - 110	0	20
											Client Sar	nple ID:	FS0 [,]
Lab Sample ID: 890-3102-1 MS											onone our		
the second s												· Type: S	
Matrix: Solid													
Matrix: Solid	Sample	Samı	ple	Spike	MS	6 MS							
Matrix: Solid Analysis Batch: 35828	Sample Result			Spike Added	MS		r Unit		D_%	Rec	Prep		
Matrix: Solid Analysis Batch: 35828 Analyte		Quali		•		Qualifie	r <u>Unit</u> mg/Kg			Rec 149	Prep [•] %Rec		
Matrix: Solid Analysis Batch: 35828 Analyte Chloride	Result	Quali		Added	Resul	Qualifie					Prep * %Rec Limits	Type: So	oluble
Matrix: Solid Analysis Batch: 35828 Analyte Chloride Lab Sample ID: 890-3102-1 MSD	Result	Quali		Added	Resul	Qualifie					Prep %Rec Limits 90 - 110 Client Sar	Type: So	oluble
Matrix: Solid Analysis Batch: 35828 Analyte Chloride Lab Sample ID: 890-3102-1 MSD Matrix: Solid	Result	Quali		Added	Resul	Qualifie					Prep %Rec Limits 90 - 110 Client Sar	Type: So mple ID:	oluble
Matrix: Solid Analysis Batch: 35828 Analyte Chloride Lab Sample ID: 890-3102-1 MSD Matrix: Solid	Result	Quali F1	ifier	Added	Resul 8888	Qualifie					Prep %Rec Limits 90 - 110 Client Sar	Type: So mple ID:	FS01
Lab Sample ID: 890-3102-1 MS Matrix: Solid Analysis Batch: 35828 Chloride Lab Sample ID: 890-3102-1 MSD Matrix: Solid Analysis Batch: 35828 Analyte	Result 5130	Quali F1	ifier	Added 2530	Resul 8888	Qualifien F1	mg/Kg				Prep %Rec Limits 90 - 110 Client Sar Prep	Type: So mple ID:	oluble

QC Association Summary

Client: Ensolum Project/Site: MCA 2A Header Main Line Page 56 of 125

GC VOA

Prep Batch: 35872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3102-1	FS01	Total/NA	Solid	5035	
890-3102-2	FS02	Total/NA	Solid	5035	
890-3102-3	FS03	Total/NA	Solid	5035	
890-3102-4	FS04	Total/NA	Solid	5035	
890-3102-5	FS05	Total/NA	Solid	5035	
MB 880-35872/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35872/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-35872/2-A	Lab Control Sample	Total/NA	Solid	5035	
880-19424-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-19424-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3102-1	FS01	Total/NA	Solid	8021B	35872	
890-3102-2	FS02	Total/NA	Solid	8021B	35872	
890-3102-3	FS03	Total/NA	Solid	8021B	35872	
890-3102-4	FS04	Total/NA	Solid	8021B	35872	
890-3102-5	FS05	Total/NA	Solid	8021B	35872	
MB 880-35872/5-A	Method Blank	Total/NA	Solid	8021B	35872	
LCS 880-35872/1-A	Lab Control Sample	Total/NA	Solid	8021B	35872	
LCS 880-35872/2-A	Lab Control Sample	Total/NA	Solid	8021B	35872	
880-19424-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	35872	
880-19424-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35872	

Analysis Batch: 35886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3102-1	FS01	Total/NA	Solid	Total BTEX	
890-3102-2	FS02	Total/NA	Solid	Total BTEX	
890-3102-3	FS03	Total/NA	Solid	Total BTEX	
890-3102-4	FS04	Total/NA	Solid	Total BTEX	
890-3102-5	FS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3102-1	FS01	Total/NA	Solid	8015NM Prep	
890-3102-2	FS02	Total/NA	Solid	8015NM Prep	
890-3102-3	FS03	Total/NA	Solid	8015NM Prep	
890-3102-4	FS04	Total/NA	Solid	8015NM Prep	
890-3102-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-3102-1 FS01 Total/NA 8015B NM 35805 Solid 890-3102-2 FS02 Total/NA Solid 8015B NM 35805

QC Association Summary

Client: Ensolum Project/Site: MCA 2A Header Main Line

GC Semi VOA (Continued)

Analysis Batch: 35863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3102-3	FS03	Total/NA	Solid	8015B NM	35805
890-3102-4	FS04	Total/NA	Solid	8015B NM	35805
890-3102-5	FS05	Total/NA	Solid	8015B NM	35805
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015B NM	35805
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35805
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35805
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35805
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35805

Analysis Batch: 35971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3102-1	FS01	Total/NA	Solid	8015 NM	
890-3102-2	FS02	Total/NA	Solid	8015 NM	
890-3102-3	FS03	Total/NA	Solid	8015 NM	
890-3102-4	FS04	Total/NA	Solid	8015 NM	
890-3102-5	FS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3102-1	FS01	Soluble	Solid	DI Leach	
890-3102-2	FS02	Soluble	Solid	DI Leach	
890-3102-3	FS03	Soluble	Solid	DI Leach	
890-3102-4	FS04	Soluble	Solid	DI Leach	
890-3102-5	FS05	Soluble	Solid	DI Leach	
MB 880-35800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3102-1 MS	FS01	Soluble	Solid	DI Leach	
890-3102-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 35828

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3102-1	FS01	Soluble	Solid	300.0	35800
890-3102-2	FS02	Soluble	Solid	300.0	35800
890-3102-3	FS03	Soluble	Solid	300.0	35800
890-3102-4	FS04	Soluble	Solid	300.0	35800
890-3102-5	FS05	Soluble	Solid	300.0	35800
MB 880-35800/1-A	Method Blank	Soluble	Solid	300.0	35800
LCS 880-35800/2-A	Lab Control Sample	Soluble	Solid	300.0	35800
LCSD 880-35800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35800
890-3102-1 MS	FS01	Soluble	Solid	300.0	35800
890-3102-1 MSD	FS01	Soluble	Solid	300.0	35800

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Job ID: 890-3102-1

Project/Site: MCA 2A Header Main Line

Job ID: 890-3102-1

Lab Sample ID: 890-3102-1 Matrix: Solid

Date Collected: 09/28/22 08:30 Date Received: 09/28/22 16:21

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 13:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35886	10/02/22 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35971	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 15:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35800	09/30/22 10:40	SMC	EET MID
Soluble	Analysis	300.0		10			35828	09/30/22 16:33	СН	EET MID

Client Sample ID: FS02

Date Collected: 09/28/22 08:35

Date Received: 09/28/22 16:21

	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	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 14:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35886	10/02/22 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35971	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 16:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35800	09/30/22 10:40	SMC	EET MID
Soluble	Analysis	300.0		10			35828	09/30/22 16:48	СН	EET MID

Client Sample ID: FS03

Date Collected: 09/28/22 08:40

Date Received: 09/28/22 16:21

	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	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 14:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35886	10/02/22 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35971	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 16:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35800	09/30/22 10:40	SMC	EET MID
Soluble	Analysis	300.0		10			35828	09/30/22 16:52	СН	EET MID

Client Sample ID: FS04 Date Collected: 09/28/22 08:45 Date Received: 09/28/22 16:21

_	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	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 14:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35886	10/02/22 08:55	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

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Lab Sample ID: 890-3102-2 Matrix: Solid

Lab Sample ID: 890-3102-3

Lab Sample ID: 890-3102-4

Matrix: Solid

Project/Site: MCA 2A Header Main Line

Job ID: 890-3102-1

Lab Sample ID: 890-3102-4

Lab Sample ID: 890-3102-5

Client Sample ID: FS04 Date Collected: 09/28/22 08:45 Date Received: 09/28/22 16:21

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35971	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 16:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35800	09/30/22 10:40	SMC	EET MID
Soluble	Analysis	300.0		10			35828	09/30/22 16:57	СН	EET MID

Client Sample ID: FS05 Date Collected: 09/28/22 08:50

Date Received: 09/28/22 16:21

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 15:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35886	10/02/22 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35971	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 17:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35800	09/30/22 10:40	SMC	EET MID
Soluble	Analysis	300.0		10			35828	09/30/22 17:02	СН	EET MID

Laboratory References:

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

Matrix: Solid

Matrix: Solid

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Accreditation/Certification Summary

Project/Site: MCA 2A H					
-		ere covered under each acc	reditation/certification below.		
 Authority	P	rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-22-24	06-30-23	-
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of		Mathia			
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		
Total BTEX		Solid	Total BTEX		
_					8
					0
					9
					10
					13

Eurofins Carlsbad

.

Method Summary

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Job ID: 890-3102-1

Client: Ensolum Project/Site: MCA 2A Header Main 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

Sample Summary

Job ID: 890-3102-1

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3102-1	FS01	Solid	09/28/22 08:30	09/28/22 16:21	4'
890-3102-2	FS02	Solid	09/28/22 08:35	09/28/22 16:21	4'
890-3102-3	FS03	Solid	09/28/22 08:40	09/28/22 16:21	4'
890-3102-4	FS04	Solid	09/28/22 08:45	09/28/22 16:21	4'
890-3102-5	FS05	Solid	09/28/22 08:50	09/28/22 16:21	4'

Relinquished by: (Signature)		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 \$8.00 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Contraction of the second seco	X			FS05	FS04	FS03	FS02	FS01	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Y	Samples Received Intact:	SAMPLE RECEIPT Ter	PO#		Project Location:	эл.	Project Name: MCA 2/	Phone:	City, State ZIP: Midland, TX 79701		Company Name: Ensolum, LLC	Project Manager: Kalei Jennings			
	e) Rec	relinquishment of sampli only for the cost of sam f \$85.00 will be applied t	200.8 / 6020: al(s) to be analyzed			256 20	2		S 09.28.22		S 09.28.22	S 09.28.22	Matrix Date Sampled	Соггес	No NA Tempe	B		Temp Blank: Tes No		Conner Shore		03D2057023	MCA 2A Header Main Line		X 79701	601 N Marienfeld St Suite 400	TC	s6u		Environment Testing Xenco	
	Received by: (Signature)	es constitutes a valid pu ples and shall not assur o each project and a ch	8RCRA 13PPM TCLP / SPLP		-			850	845	840	835	830	Time Sampled	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	No Wet Ice:	the lab, if rece	TAT starts the	Due Date:	Routine		Email:			0			t Testing	
	ure)	archase order from clie ne any responsibility fo arge of \$5 for each sam	CLP / SPLP 6010: 8RCRA					4' C 1	4' C 1	4' C 1	4' C 1	4' C 1	Depth Grab/ # of Comp Cont	0.5	10	ţ	1	R Zo nete	the lab, if received by 4:30pm	TAT starts the day received by	3 Day	A Rush Code	Turn Around	Email: kjennings@ensolum.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs, NA	Houston, Midland, TX EL Paso	0
- !	Date/Time	nt company to Eurofins X r any losses or expenses pie submitted to Eurofins	l Sb As Ba Be B A Sb As Ba Be (× × ×	× × ×	× × ×	× × ×	× × ×	ETEX	3015))									im.com	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Kalei Jennings	A (575) 392-7550, Carls	TX (281) 240-4200, Da (432) 704-5440, San Ai (X (915) 585-3443. Lubl	Chain of Custody
leal 1	Relinquished by: (Signature)	enco, its affiliates and subcontractors 1 Incurred by the cilent if such losses : 5 Xenco, but not analyzed. These term:	Cd Ca Cr Co Cu Fe 3d Cr Co Cu Pb Mn											_	890-3102 Chain of Custory								ANALYSIS REQUEST			St Suite 400			Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	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 (606) 794-1296	ustody
	ure) Received by	ractors. It assigns standard terms and conditions losses are due to circumstances beyond the contro se terms will be enforced unless previously negotia	Mg Mn Mo Ni K Se / Ni Se Ag Tl U																				DUEST	Deliverables: EDD	Reporting: Level II Leve	State of Project:	Program: UST/PST PF	Wo	WWW.X	Work O	
	Received by: (Signature)	onditions the control ly negotiated.	Ag SiO ₂ Na Sr TI Sn U Hg: 1631/245.1/7470							Incide			Sample	NauH+Ascorbic Acid. SAFC	IZn Acetate+NaUH: Zn	Na2S2U3: NASU3	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ SU ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preserv	ADaPT L Other:]	Program: UST/PST PRP Brownfields RRC	Work Order Comments	www.xenco.com Page	Work Order No:	
	Date/Time		J V Zn 17471							Incident Number			Sample Comments	IC ACIO. SAFC	aUH: Zn	C 3	9 IS		NaCH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes				Superfund		0f 1		

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Job Number: 890-3102-1

List Source: Eurofins Carlsbad

SDG Number:

14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3102 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 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	

N/A

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

Job Number: 890-3102-1

List Source: Eurofins Midland

List Creation: 09/30/22 10:28 AM

SDG Number:

14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3102 List Number: 2 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	

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

Received by OCD: 11/29/2022 4:34:48 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 705 W. Wadley Suite 210 Midland Texas 79701 Generated 11/23/2022 12:56:52 PM Revision 1

JOB DESCRIPTION

MCA 2A Header Main Line SDG NUMBER 03D2057023

JOB NUMBER

890-3141-1

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Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



SDG: 03D2057023

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QC Association Summary	28
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Sample Summary	41
Chain of Custody	42
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ceived by OCI	D: 11/29/2022 4:34:48 PM	Page 68 of 1	25
	Definitions/Glossary		1
Client: Ensolu Project/Site: I	•	Job ID: 890-3141-1 SDG: 03D2057023	2
Qualifiers			3
GC VOA Qualifier	Qualifier Description		4
F1	MS and/or MSD recovery exceeds control limits.		
F2	MS/MSD RPD exceeds control limits		5
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		8
HPLC/IC			
Qualifier	Qualifier Description		9
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		

DL	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)

Estimated Detection Limit (Dioxin) EDL

Limit of Detection (DoD/DOE) LOD 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

Not Calculated NC

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

NEG Negative / Absent

POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

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

Job ID: 890-3141-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3141-1

REVISION

The report being provided is a revision of the original report sent on 10/13/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID edits.

Report revision history

Receipt

The samples were received on 10/5/2022 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS06 (890-3141-1), FS07 (890-3141-2), FS08 (890-3141-3), FS09 (890-3141-4), FS10 (890-3141-5), FS11 (890-3141-6), FS12 (890-3141-7), FS13 (890-3141-8), FS14 (890-3141-9), FS15 (890-3141-10), FS16 (890-3141-11), SW01 (890-3141-12), SW02 (890-3141-13), SW03 (890-3141-14), SW04 (890-3141-15), SW05 (890-3141-16), SW06 (890-3141-17) and SW07 (890-3141-18).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-36588 and analytical batch 880-36674 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-36678 and analytical batch 880-36674 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-36588 and analytical batch 880-36674 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 880-36291 and analytical batch 880-36220 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 880-36241 and analytical batch 880-36597 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 Project/Site: MCA 2A Header Main Line

Client Sample ID: FS06 Date Collected: 10/04/22 12:00

Method: SW846 8021B - Vo Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			0.00202	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
oluene	< 0.00202	U F2 F1	0.00202	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
Ethylbenzene	<0.00202	U F2 F1	0.00202	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
n-Xylene & p-Xylene	<0.00403	U F2 F1	0.00403	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
o-Xylene	<0.00202	U F2 F1	0.00202	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
Xylenes, Total	<0.00403	U F2 F1	0.00403	mg/Kg		10/10/22 13:26	10/12/22 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/10/22 13:26	10/12/22 05:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/10/22 13:26	10/12/22 05:55	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			10/12/22 11:30	1

Method: SW846 8015 NM - D	iesel Range O	rganics (DF	RO) (GC)						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0 L	J	50.0	mg/Kg			10/07/22 10:01	1	

Method: SW846 8015B NM - D	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		10/06/22 15:48	10/06/22 21:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 21:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			10/06/22 15:48	10/06/22 21:19	1
o-Terphenyl	96		70 - 130			10/06/22 15:48	10/06/22 21:19	1

Method: MCAWW 300.0 - Anior	ons, Ion Chromatography - Soluble							
Analyte Chloride	Result 2300	Qualifier F1	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/10/22 22:49	Dil Fac 5
Client Sample ID: FS07						Lab Sam	ole ID: 890-3	141-2

Client Sample ID: FS07 Date Collected: 10/04/22 12:05 Date Received: 10/05/22 09:10 Sample Depth: 4'

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/10/22 13:26	10/12/22 06:21	1

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Matrix: Solid

Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-1 Matrix: Solid

Released to Imaging: 1/4/2023 12:15:53 PM

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Client Sample Results

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Job ID: 890-3141-1 SDG: 03D2057023

Client Sample ID: FS07

Client: Ensolum

Date Collected: 10/04/22 12:05
Date Received: 10/05/22 09:10
Sample Depth: 4'

Project/Site: MCA 2A Header Main Line

Lab Sample ID: 890-3141-2 Matrix: Solid

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Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	87		70 - 130			10/10/22 13:26	10/12/22 06:21	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/22 11:30	· · ·
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			10/07/22 10:01	
Method: SW846 8015B NM - D	iesel Range	• Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:24	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:24	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	82		70 - 130			10/06/22 15:48	10/06/22 22:24	
o-Terphenyl	88		70 - 130			10/06/22 15:48	10/06/22 22:24	
Method: MCAWW 300.0 - Anic	ons, Ion Chr	omatograp	ohy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5210		50.0	mg/Kg			10/10/22 23:12	1
lient Sample ID: FS08						Lah Samn	le ID: 890-3	1/1 4

Date Received: 10/05/22 09:10 Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/10/22 13:26	10/12/22 06:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/10/22 13:26	10/12/22 06:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/10/22 13:26	10/12/22 06:47	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/12/22 11:30	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			10/07/22 10:01	

Client Sample Results

Client Sample ID: FS08

Date Collected: 10/04/22 12:10 Date Received: 10/05/22 09:10

Method: SW846 8015B NM - [Qualifier		Unit	D	Drenered	Analyzad	Dil Fac
Analyte	Result	Quaimer		Unit		Prepared	Analyzed	DIFac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			10/06/22 15:48	10/06/22 22:46	1
o-Terphenyl	84		70 - 130			10/06/22 15:48	10/06/22 22:46	1
_ Method: MCAWW 300.0 - Ani	ons, Ion Chr	omatogra	ohy - Soluble					
		· · · · · ·	-	Unit	D	Dremered	Analyzad	DUF
Analyte	Result	Qualifier	RL	Unit	U	Prepared	Analyzed	Dil Fac

Client Sample ID: FS09 Date Collected: 10/04/22 12:15

Date Received: 10/05/22 09:10 Sample Depth: 4'

Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/10/22 13:26	10/12/22 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/10/22 13:26	10/12/22 07:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/10/22 13:26	10/12/22 07:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier Analvte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/12/22 11:30	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 10/07/22 10:01 1

Method: SW846 8015B NM - D	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		10/06/22 15:48	10/06/22 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			10/06/22 15:48	10/06/22 23:07	1
o-Terphenyl	82		70 - 130			10/06/22 15:48	10/06/22 23:07	1

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Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-3

Lab Sample ID: 890-3141-4

Matrix: Solid

Matrix: Solid
		Client	Sample Re	sults				
Client: Ensolum Project/Site: MCA 2A Header Ma	in Line		-				Job ID: 890- SDG: 03D2	-
Client Sample ID: FS09 Date Collected: 10/04/22 12:15 Date Received: 10/05/22 09:10 Sample Depth: 4'						Lab Samp	le ID: 890-3 Matrix	3 141-4 :: Solid
Method: MCAWW 300.0 - Anic Analyte		omatogra Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4620		24.8	mg/Kg			10/10/22 23:28	5
Client Sample ID: FS10 Date Collected: 10/04/22 12:20 Date Received: 10/05/22 09:10 Sample Depth: 4'						Lab Samp	le ID: 890-3 Matrix	8 141-5 (: Solid
_ Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/10/22 13:26	10/12/22 07:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/10/22 13:26	10/12/22 07:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/10/22 13:26	10/12/22 07:40	1
_ Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/12/22 11:30	1
Method: SW846 8015 NM - Die		-		11-24	-	Durant	Angland	D
Analyte Total TPH	Result	Qualifier		Unit	D	Prepared	Analyzed 10/07/22 10:01	Dil Fac
Method: SW846 8015B NM - D Analyte	iesel Range	e Organics Qualifier		mg/Kg Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:29	1
Diesel Range Organics (Over	201		49.9	mg/Kg		10/06/22 15:48	10/06/22 23:29	1
C10-C28)						40/00/00 45 40		
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:29	1
	%Recovery		49.9 Limits	mg/Kg		10/06/22 15:48	10/06/22 23:29 Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36)				mg/Kg			Analyzed	-
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits	mg/Kg		Prepared 10/06/22 15:48	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 89 91 ons, Ion Chr	Qualifier	Limits 70 - 130 70 - 130	mg/Kg Unit	D	Prepared 10/06/22 15:48	Analyzed	Dil Fac

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Client Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

Client Sample ID: FS11 Date Collected: 10/04/22 12:25 Date Received: 10/05/22 09:10 Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/10/22 13:26	10/12/22 08:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/10/22 13:26	10/12/22 08:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/10/22 13:26	10/12/22 08:06	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/12/22 11:30	1

Method: SW846 8015 NM - Die	esel Range (Organics (E)RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			10/07/22 10:01	1	

Method: SW846 8015B NM - D	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		10/06/22 15:48	10/06/22 23:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/06/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			10/06/22 15:48	10/06/22 23:50	1
o-Terphenyl	80		70 - 130			10/06/22 15:48	10/06/22 23:50	1

Method: MCAWW 300.0 - Ani	ions, Ion Chromatograph	y - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530	25.0	mg/Kg			10/10/22 23:59	5

Client Sample ID: FS12 Date Collected: 10/04/22 12:30 Date Received: 10/05/22 09:10 Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/10/22 13:26	10/12/22 08:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/10/22 13:26	10/12/22 08:41	1

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Matrix: Solid

Lab Sample ID: 890-3141-7

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Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-6

Matrix: Solid

Client Sample Results

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Job ID: 890-3141-1 SDG: 03D2057023

Client Sample ID: FS12

Client: Ensolum

Date Collected: 10/04/22 12:30	
Date Received: 10/05/22 09:10	
Sample Depth: 4'	

Lab Sample ID: 890-3141-7 Matrix: Solid

5

Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC) (Continu	led)				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130			10/10/22 13:26	10/12/22 08:41	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		<u> </u>	10/12/22 11:30	1
Method: SW846 8015 NM - Die	esel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/07/22 10:01	1
Method: SW846 8015B NM - D)iesel Range	Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 00:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 00:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			10/06/22 15:48	10/07/22 00:11	1
o-Terphenyl	95		70 - 130			10/06/22 15:48	10/07/22 00:11	1
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4150		24.8	mg/Kg			10/11/22 00:06	5
Client Sample ID: FS13						Lab Samp	le ID: 890-3	3141-8
Pate Collected: 10/04/22 12:35 Pate Received: 10/05/22 09:10 Sample Depth: 4'							Matrix	: Solid
Method: SW846 8021B - Volat Analyte	• •	Compound Qualifier	ds (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 12:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/10/22 13:26	10/12/22 12:10	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/10/22 13:26	10/12/22 12:10	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/22 11:30	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.3		49.9	mg/Kg			10/07/22 10:01	1

Client Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

Client Sample ID: FS13 Date Collected: 10/04/22 12:35

Method: SW846 8015B NM - D Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/07/22 00:33	
Diesel Range Organics (Over C10-C28)	57.3		49.9	mg/Kg		10/06/22 15:48	10/07/22 00:33	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:48	10/07/22 00:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130			10/06/22 15:48	10/07/22 00:33	
o-Terphenyl	93		70 - 130			10/06/22 15:48	10/07/22 00:33	
Method: MCAWW 300.0 - Anic			•			_		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3600		25.0	mg/Kg			10/11/22 00:14	
lient Sample ID: FS14 ate Collected: 10/04/22 12:40 ate Received: 10/05/22 09:10 ample Depth: 4'						Lab Samp	le ID: 890-3 Matrix	
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 12:36	
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 12:36	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 12:36	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/10/22 13:26	10/12/22 12:36	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 12:36	
Kylenes, Total	<0.00400	U	0.00400	mg/Kg		10/10/22 13:26	10/12/22 12:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130			10/10/22 13:26	10/12/22 12:36	
1,4-Difluorobenzene (Surr)	90		70 - 130			10/10/22 13:26	10/12/22 12:36	
Method: TAL SOP Total BTEX				11-14	_	Due a	A make	
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400		0.00400	mg/Kg			10/12/22 11:30	
Method: SW846 8015 NM - Die Analyte		Organics (Qualifier	DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0		50.0	mg/Kg			10/07/22 10:01	Diira
				iiig/ixg			10/01/22 10.01	
Method: SW846 8015B NM - D Analyte		Organics Qualifier	s (DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<pre></pre> <pre></pre> <pre></pre> <pre></pre>		50.0			10/06/22 15:48		
GRO)-C6-C10				mg/Kg				
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 00:54	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 00:54	

		0010	•	0010	 10/00/22 10110		•
l	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
l	1-Chlorooctane	92		70 - 130	10/06/22 15:48	10/07/22 00:54	1
L	o-Terphenyl	91		70 - 130	10/06/22 15:48	10/07/22 00:54	1

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Released to Imaging: 1/4/2023 12:15:53 PM

		Client	Sample Re	sults				
Client: Ensolum			-				Job ID: 890-	
Project/Site: MCA 2A Header Ma	in Line						SDG: 03D2	057023
Client Sample ID: FS14Lab Sample ID: 890-3147Date Collected: 10/04/22 12:40Matrix: SoDate Received: 10/05/22 09:10Sample Depth: 4'								
Method: MCAWW 300.0 - Anio	ons lon Chr	omatogra	oby - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		24.8	mg/Kg			10/11/22 00:22	5
Client Sample ID: FS15						ah Sample	D: 890-31	41-10
Date Collected: 10/04/22 12:45 Date Received: 10/05/22 09:10 Sample Depth: 4'								: Solid
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/10/22 13:26	10/12/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			10/10/22 13:26	10/12/22 13:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/10/22 13:26	10/12/22 13:02	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/12/22 11:30	1
Method: SW846 8015 NM - Di	esel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.9		50.0	mg/Kg			10/07/22 10:01	1
		0						
Method: SW846 8015B NM - E		Qualifier		11	D	Drenered	Analyzad	
Analyte Gasoline Range Organics	<pre></pre>			Unit		Prepared 10/06/22 15:48	Analyzed 10/07/22 01:15	Dil Fac
(GRO)-C6-C10		0		mg/Kg		10/00/22 15.40	10/07/22 01.15	I
Diesel Range Organics (Over C10-C28)	91.9		50.0	mg/Kg		10/06/22 15:48	10/07/22 01:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			10/06/22 15:48	10/07/22 01:15	1
o-Terphenyl	81		70 - 130			10/06/22 15:48	10/07/22 01:15	1
Method: MCAWW 300.0 - Anio			phy - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3190		25.2	mg/Kg			10/11/22 00:29	5

Client Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

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

Client Sample ID: FS16 Date Collected: 10/04/22 12:50 Date Received: 10/05/22 09:10

Sample Depth: 4'

.lob ID: 890

Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-11

Matrix: Solid

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Dil Fac

1

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

Dil Fac

Matrix: Solid

10/06/22 15:48 10/07/22 01:59

10/06/22 15:48 10/07/22 01:59

Result Qualifier Unit Prepared Analyte RL D Analyzed <0.00201 U 10/10/22 13:26 10/12/22 13:28 Benzene 0.00201 mg/Kg Toluene <0.00201 U 0.00201 mg/Kg 10/10/22 13:26 10/12/22 13:28 Ethylbenzene 0.00201 mg/Kg 10/10/22 13:26 10/12/22 13:28 <0.00201 U m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 10/10/22 13:26 10/12/22 13:28 o-Xylene 10/10/22 13:26 10/12/22 13:28 <0.00201 U 0.00201 mg/Kg Xylenes, Total <0.00402 U 0.00402 mg/Kg 10/10/22 13:26 10/12/22 13:28 Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 10/10/22 13:26 10/12/22 13:28 4-Bromofluorobenzene (Surr) 114 1,4-Difluorobenzene (Surr) 93 70 - 130 10/10/22 13:26 10/12/22 13:28 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte **Result Qualifier** RL Unit D Prepared Analyzed Total BTEX <0.00402 U 0.00402 mg/Kg 10/12/22 11:30 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** Unit Analyzed RL D Prepared **Total TPH** 49.8 mg/Kg 10/07/22 10:01 58.8 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL Unit D Prepared Analyzed <49.8 U 49.8 10/06/22 15:48 10/07/22 01:59 Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/06/22 15:48 10/07/22 01:59 **Diesel Range Organics (Over** 58.8 49.8 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 10/06/22 15:48 10/07/22 01:59 mg/Kg %Recovery Qualifier Limits Prepared Surrogate Analyzed

Method: MCAWW 300.0 - Anion Analyte		omatograph Qualifier	iy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3180	F1	24.9	mg/Kg			10/11/22 00:37	5
Client Sample ID: SW01					L	ab Sampl	e ID: 890-31	41-12

70 - 130

70 - 130

78

79

Client Sample ID: SW01 Date Collected: 10/04/22 12:55 Date Received: 10/05/22 09:10 Sample Depth: 0-4'

1-Chlorooctane

o-Terphenyl

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/10/22 13:26	10/12/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/10/22 13:26	10/12/22 13:54	1

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

88

<0.00399 U

Client Sample Results

Limits

70 - 130

RL

RL

49.9

RL

49.9

0.00399

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

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Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

Job ID: 890-3141-1 SDG: 03D2057023

Client Sample ID: SW01

Client: Ensolum

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

Total TPH

Total BTEX

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Date Collected: 10/04/22 12:55
Date Received: 10/05/22 09:10
Sample Depth: 0-4'

Lab Sample ID: 890-3141-12

Analyzed

Analyzed

10/12/22 11:30

Analyzed

10/07/22 10:01

Analyzed

10/07/22 02:20

10/10/22 13:26 10/12/22 13:54

Prepared

Prepared

Prepared

Prepared

10/06/22 15:48

D

D

D

Matrix: Solid

Method: SW846 8015 NM - Dies	el Range C	Drganics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/07/22 10:01	1

Client Sample Results

Client Sample ID: SW02 Date Collected: 10/04/22 13:00

Date	Conected. 10/04/22 13.00
Date	Received: 10/05/22 09:10
Sam	ple Depth: 0-4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 02:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 02:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/06/22 15:48	10/07/22 02:42	1
o-Terphenyl	86		70 - 130			10/06/22 15:48	10/07/22 02:42	1

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		4.95	mg/Kg			10/11/22 01:08	1

Client Sample ID: SW03 Date Collected: 10/04/22 13:05

Date Received: 10/05/22 09:10 Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/10/22 13:26	10/12/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/10/22 13:26	10/12/22 14:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/10/22 13:26	10/12/22 14:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyta Result Qualifier

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/22 11:30	1

Method: SW846 8015 NM - Die	esel Range (Jrganics (L	JRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/07/22 10:01	1
_								

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) **Result Qualifier** Analyte RL Unit Dil Fac D Prepared Analyzed <50.0 U 50.0 10/06/22 15:48 10/07/22 03:03 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10 10/06/22 15:48 10/07/22 03:03 <50.0 U 50.0 **Diesel Range Organics (Over** mg/Kg 1 C10-C28) 10/06/22 15:48 10/07/22 03:03 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 7/22 03:03 1

1-Chlorooctane	88	70 - 130	10/06/22 15:48 10/07/22 03:03
o-Terphenyl	86	70 - 130	10/06/22 15:48 10/07/22 03:03

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1

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Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-13

Lab Sample ID: 890-3141-14

Matrix: Solid

Matrix: Solid

5

13

		Client	Sample Re	sults				
Client: Ensolum Project/Site: MCA 2A Header Mai	in Line		•				Job ID: 890- SDG: 03D2	
Client Sample ID: SW03 Date Collected: 10/04/22 13:05 Date Received: 10/05/22 09:10 Sample Depth: 0-4'					L	ab Sample.	D: 890-31 (Matrix	41-14 : Solid
Method: MCAWW 300.0 - Anio Analyte		<mark>omatogra</mark> Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		5.00	mg/Kg			10/11/22 01:31	1
Client Sample ID: SW04 Date Collected: 10/04/22 13:10 Date Received: 10/05/22 09:10 Sample Depth: 0-4'					L	ab Sample.	e ID: 890-31 Matrix	41-15 :: Solid
Method: SW846 8021B - Volat	-				_			
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		10/10/22 13:26	10/12/22 15:12	1
	< 0.00200		0.00200	mg/Kg		10/10/22 13:26	10/12/22 15:12	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		10/10/22 13:26	10/12/22 15:12	1
m-Xylene & p-Xylene o-Xylene	<0.00401 <0.00200		0.00401 0.00200	mg/Kg			10/12/22 15:12 10/12/22 15:12	1
Xylenes, Total	<0.00200		0.00200	mg/Kg mg/Kg			10/12/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			10/10/22 13:26	10/12/22 15:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/10/22 13:26	10/12/22 15:12	1
Method: TAL SOP Total BTEX	- Total BTE	X Calcula	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/12/22 11:30	1
Method: SW846 8015 NM - Die			(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/07/22 10:01	1
Method: SW846 8015B NM - D Analyte		Organics Qualifier	s (<mark>DRO) (GC)</mark> RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg		10/06/22 15:48	10/07/22 03:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 03:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/07/22 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			10/06/22 15:48	10/07/22 03:25	1
o-Terphenyl	75		70 - 130			10/06/22 15:48	10/07/22 03:25	1
Method: MCAWW 300.0 - Anio		-						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		4.97	mg/Kg			10/11/22 01:39	1

Client Sample Results

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

Limits

70 - 130

70 - 130

RL

RL

49.8

0.00402

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

Unit

mg/Kg

Client: Ensolum Project/Site: MCA 2A Header Main Line

Client Sample ID: SW05 Date Collected: 10/04/22 13:15 Date Received: 10/05/22 09:10

Sample Depth: 0-4'

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

<0.00201 U

<0.00201 U

<0.00201 U

<0.00402 U

<0.00201 U

<0.00402 U

%Recovery Qualifier

113

88

<0.00402 U

Result Qualifier

Result Qualifier

<49.8 U

Dil Fac

1

1

1

1

1

1

1

Dil Fac

Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-16

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

10/10/22 13:26 10/12/22 15:38

Analyzed

Analyzed

Analyzed

10/12/22 11:30

Analyzed

10/07/22 10:01

Prepared

Prepared

Prepared

Prepared

D

D

D

Matrix: Solid

5

Dil Fac Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 03:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 03:47	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			10/06/22 15:48	10/07/22 03:47	1
o-Terphenyl	87		70 - 130			10/06/22 15:48	10/07/22 03:47	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8	4.98	mg/Kg			10/11/22 01:47	1
Client Sample ID: SW06				L	ab Sampl	e ID: 890-31	41-17

Date Collected: 10/04/22 13:20 Date Received: 10/05/22 09:10 Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/10/22 13:26	10/12/22 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			10/10/22 13:26	10/12/22 16:04	1

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Matrix: Solid

Limits

70 - 130

RL

RL

49.8

0.00401

Unit

Unit

mg/Kg

mg/Kg

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

Job ID: 890-3141-1 SDG: 03D2057023

Client Sample ID: SW06

Client: Ensolum

Surrogate

Analyte

1,4-Difluorobenzene (Surr)

Date Collected: 10/04/22 13:20
Date Received: 10/05/22 09:10
Sample Depth: 0-4'

Project/Site: MCA 2A Header Main Line

Lab Sample ID: 890-3141-17

Analyzed

Analyzed

10/12/22 11:30

Analyzed

10/07/22 10:01

Analyzed

10/07/22 04:09

10/07/22 04:09

10/07/22 04:09

Analyzed

10/07/22 04:09

10/10/22 13:26 10/12/22 16:04

Prepared

Prepared

Prepared

Prepared

10/06/22 15:48

10/06/22 15:48

10/06/22 15:48

D

D

D

Matrix: Solid

o-Terphenyl	89		70 - 130			10/06/22 15:48	10/07/22 04:09	1
_ Method: MCAWW 300.0 - Anio	ons. Ion Chr	omatograi	ohv - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		5.00	mg/Kg			10/11/22 01:54	1
Client Sample ID: SW07					L	ab Sample	D: 890-31	41-18
Date Collected: 10/04/22 13:25 Date Received: 10/05/22 09:10 Sample Depth: 0-4'							Matrix	: Solid
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/22 16:29	10/12/22 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/11/22 16:29	10/12/22 17:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130			10/11/22 16:29	10/12/22 17:26	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Method: TAL SOP Total BTEX Analyte		X Calculat Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Total BTEX <0.00401 U Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** Total TPH <49.8 U Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier Unit Analyte RL <49.8 U Gasoline Range Organics 49.8 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** <49.8 U 49.8 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg

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

%Recovery Qualifier

Result Qualifier

86

Surrogate	%Recovery	Qualifier	Limits	Prepared
1-Chlorooctane	91		70 - 130	10/06/22 15:48
o-Terphenyl	89		70 - 130	10/06/22 15:48

Method: MCAWW 300.0 - Ani	ons, Ion Chromatography	- Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Di

Chloride	21.4	5.00	mg/Kg	10/11/22 01:54	1

Client San Date Collect Date Receiv Sample Dep

m-Xylene & po-Xylene Xylenes, Total Surrogate 4-Bromofluoro 1,4-Difluorobe Method: TA Analvte Total BTEX 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 10/07/22 10:01 1

Released to Imaging: 1/4/2023 12:15:53 PM

Client Sample Results

Client: Ensolum Project/Site: MCA 2A Header Main Line

Client Sample ID: SW07 Date Collected: 10/04/22 13:25

Lab Sample ID: 890-3141-18

Matrix: Solid

Job ID: 890-3141-1

SDG: 03D2057023

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 04:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 04:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/06/22 15:48	10/07/22 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
I-Chlorooctane	89		70 - 130			10/06/22 15:48	10/07/22 04:30	1
o-Terphenyl	86		70 - 130			10/06/22 15:48	10/07/22 04:30	1
, ,	ons. Ion Chr	omatograr	ohv - Soluble					
Method: MCAWW 300.0 - Anic Analyte		omatograp Qualifier	ohy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac

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5

Surrogate Summary

DFBZ1

(70-130)

BFB1

(70-130)

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Client Sample ID

880-20232-A-1-A MS Matrix Spike 99 107 880-20232-A-1-B MSD 77 Matrix Spike Duplicate 109 890-3141-1 FS06 92 93 FS06 105 90 890-3141-1 MS 890-3141-1 MSD FS06 112 98 87 890-3141-2 **FS07** 89 890-3141-3 FS08 114 99 890-3141-4 FS09 115 98 890-3141-5 FS10 89 91 890-3141-6 FS11 114 94 890-3141-7 FS12 108 93 890-3141-8 FS13 103 90 FS14 890-3141-9 99 90 890-3141-10 FS15 117 104 93 890-3141-11 FS16 114 890-3141-12 SW01 88 109 890-3141-13 SW02 117 90 890-3141-14 SW03 112 88 SW04 890-3141-15 122 100 890-3141-16 SW05 113 88 890-3141-17 SW06 116 86 890-3141-18 SW07 97 104 LCS 880-36588/1-A Lab Control Sample 106 87 LCS 880-36699/1-A Lab Control Sample 100 97 LCSD 880-36588/2-A Lab Control Sample Dup 109 113 LCSD 880-36699/2-A Lab Control Sample Dup 103 104 Method Blank 69 S1-MB 880-36588/5-A 88 Method Blank MB 880-36678/5-A 69 S1-91 MB 880-36699/5-A Method Blank 90 112

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

			Percent Surrogate Recovery (Acceptance Limits)						
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
890-3141-1	FS06	93	96						
890-3141-1 MS	FS06	95	84						
890-3141-1 MSD	FS06	85	81						
890-3141-2	FS07	82	88						
890-3141-3	FS08	80	84						
890-3141-4	FS09	79	82						
890-3141-5	FS10	89	91						
890-3141-6	FS11	77	80						
890-3141-7	FS12	95	95						
890-3141-8	FS13	94	93						

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11/23/2022 (Rev. 1)

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Prep Type: Total/NA



Client: Ensolum

Job ID: 890-3141-1 SDG: 03D2057023

Project/Site: MCA 2A Header Main Line Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Matrix: Solid

Prep Type: Total/NA

			Pe	rcent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		Ę
890-3141-9	FS14	92	91		
890-3141-10	FS15	79	81		6
890-3141-11	FS16	78	79		6
890-3141-12	SW01	70	74		
890-3141-13	SW02	88	86		
890-3141-14	SW03	88	86		
890-3141-15	SW04	72	75		3
890-3141-16	SW05	87	87		
890-3141-17	SW06	91	89		9
890-3141-18	SW07	89	86		
LCS 880-36291/2-A	Lab Control Sample	95	91		
LCSD 880-36291/3-A	Lab Control Sample Dup	116	104		
MB 880-36291/1-A	Method Blank	6 S1-	8 S1-		
Surrogate Legend					

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID: MB 880-36588/5-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 36674							Prep Batch:	
-	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/10/22 13:26	10/12/22 05:28	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130			10/10/22 13:26	10/12/22 05:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/10/22 13:26	10/12/22 05:28	1

Lab Sample ID: LCS 880-36588/1-A Matrix: Solid Analysis Batch: 36674

Analysis Batch: 36674							Prep E	Batch: 36588
-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09460		mg/Kg		95	70 - 130	
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09514		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1961		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.08923		mg/Kg		89	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-36588/2-A Matrix: Solid

Analysis Batch: 36674

Analysis Batch: 36674								rep Batch: 36588		
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09830		mg/Kg		98	70 - 130	4	35	
Toluene	0.100	0.09845		mg/Kg		98	70 - 130	2	35	
Ethylbenzene	0.100	0.09518		mg/Kg		95	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.1958		mg/Kg		98	70 - 130	0	35	
o-Xylene	0.100	0.08923		mg/Kg		89	70 - 130	0	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-3141-1 MS Matrix: Solid

		<u> </u>		
Analy	/SIS	Batch	1: 366	74

Analysis Batch: 36674									Prep E	Batch: 36588
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.101	0.04576	F1	mg/Kg	_	45	70 - 130	
Toluene	<0.00202	U F2 F1	0.101	0.04217	F1	mg/Kg		42	70 - 130	

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

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: FS06

Prep Type: Total/NA

Lab Sample ID: 890-3141-1 MS

Analysis Batch: 36674

4-Bromofluorobenzene (Surr)

Analysis Batch: 36674

Lab Sample ID: 890-3141-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Ethylbenzene

m-Xylene & p-Xylene

QC Sample Results

Spike

0.101

0.202

0.101

Limits

70 - 130

70 - 130

Spike

Added

0.0994

0.0994

0.0994

0.199

0.0994

Limits

70 - 130

70 - 130

Added

Result Qua

0.04668 F1

0.1106 F1

Result Qua

0.09978 F2

0.1025 F2

0.09678 F2

0.2019 F2

0.09202 F2

0.05811 F1

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

Sample Sample

<0.00202 U F2 F1

<0.00403 U F2 F1

<0.00202 U F2 F1

MS MS

Sample Sample

<0.00202 U F2 F1

<0.00202 U F2 F1

<0.00202 U F2 F1

<0.00403 U F2 F1

<0.00202 U F2 F1

MSD MSD

- - -

MR MR

%Recovery Qualifier

112

98

Result Qualifier

%Recovery Qualifier

105

90

Result Qualifier

Conti	nued)							
-	MS Qualifier	Unit	D	C %Rec	lient Sam Prep Ty Prep B %Rec Limits	pe: Tot	al/NA	4 5
04668		mg/Kg		46	70 - 130			
	F1	mg/Kg		55	70 - 130			
.05811	F1	mg/Kg		58	70 - 130			-7
		5. 5						
								8
								9
				С	lient Sam Prep Ty			
MSD	MSD				Prep B %Rec	atch: 3	86588 RPD	
Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
09978	F2	mg/Kg		100	70 - 130	74	35	
0.1025	F2	mg/Kg		103	70 - 130	83	35	
09678	F2	mg/Kg		97	70 - 130	70	35	13
0.2019	F2	mg/Kg		102	70 - 130	58	35	
09202	F2	mg/Kg		93	70 - 130	45	35	

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA Prep Batch: 36699

Dil Fac

1

1

Prepared

10/11/22 13:04 10/11/22 15:54

10/11/22 13:04 10/11/22 15:54

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 36678

Lab Sample ID: MB 880-36678/5-A Matrix: Solid Analysis Batch: 36674

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/22 13:04	10/11/22 15:54	1
	MB	МВ						

	=		
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-36699/5-A Matrix: Solid Analysis Batch: 36717

	IVID							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/11/22 16:29	10/12/22 11:29	1

RL

0.00200

0.00400

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: MCA 2A Header Main Line

Lab Sample ID: MB 880-36699/5-A

Matrix: Solid

Analyte

o-Xylene

Surrogate

Xylenes, Total

Analysis Batch: 36717

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

MB MB

MB MB

%Recovery Qualifier

90

112

<0.00200 U

<0.00400 U

Result Qualifier

			le ID: Method Prep Type: To Prep Batch:	otal/NA
Unit	D	Prepared	Analyzed	Dil Fac
mg/Kg		10/11/22 16:29	10/12/22 11:29	1
mg/Kg		10/11/22 16:29	10/12/22 11:29	1
		Prepared	Analyzed	Dil Fac
		10/11/22 16:29	10/12/22 11:29	1
		10/11/22 16:29	10/12/22 11:29	1

Lab Sample ID: LCS 880-36699/1-A **Matrix: Solid** Analysis Batch: 36717

Analysis Batch: 36717					Prep Batch: 36699
	Spike	LCS LCS	S		%Rec
Analyte	Added	Result Qua	alifier Unit	D %Rec	Limits
Benzene	0.100	0.08151	mg/Kg	82	70 - 130
Toluene	0.100	0.08917	mg/Kg	89	70 - 130
Ethylbenzene	0.100	0.07884	mg/Kg	79	70 - 130
m-Xylene & p-Xylene	0.200	0.1575	mg/Kg	79	70 - 130
o-Xylene	0.100	0.07833	mg/Kg	78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-36699/2-A Matrix: Solid Analysis Batch: 36717

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

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	10	35
Toluene	0.100	0.09725		mg/Kg		97	70 - 130	9	35
Ethylbenzene	0.100	0.08683		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1722		mg/Kg		86	70 - 130	9	35
o-Xylene	0.100	0.08568		mg/Kg		86	70 - 130	9	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-20232-A-1-A MS Matrix: Solid

Analysis Batch: 36717									Prep E	Satch: 36699
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09214		mg/Kg		92	70 - 130	
Toluene	<0.00201	U F1	0.100	0.09307		mg/Kg		93	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.07772		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1563		mg/Kg		78	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.100	0.07596		mg/Kg		75	70 - 130	

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Job ID: 890-3141-1

SDG: 03D2057023

Prep Type: Total/NA

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Prep Batch: 36699

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Lab Sample ID: 880-20232-A-1-A MS
Matrix: Solid
Analysis Batch: 36717

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-20232-A-1-B MSD Matrix: Solid

Analysis Batch: 36717									Prep E	Satch: 3	36699
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0998	0.07929		mg/Kg		79	70 - 130	15	35
Toluene	<0.00201	U F1	0.0998	0.06564	F1	mg/Kg		66	70 - 130	35	35
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.05281	F1 F2	mg/Kg		53	70 - 130	38	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.09464	F1 F2	mg/Kg		47	70 - 130	49	35
o-Xylene	<0.00201	U F1 F2	0.0998	0.04674	F1 F2	mg/Kg		46	70 - 130	48	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	77		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								

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

Lab Sample ID: MB 880-3629	1/1 -A						le ID: Method	
Matrix: Solid							Prep Type: To	
Analysis Batch: 36220							Prep Batch	: 36291
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 19:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:48	10/06/22 19:28	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	6	S1-	70 - 130			10/06/22 15:48	10/06/22 19:28	1
o-Terphenyl	8	S1-	70 - 130			10/06/22 15:48	10/06/22 19:28	1
Lab Sample ID: LCS 880-3629 Matrix: Solid	91/2-A				Clien		Lab Control S Prep Type: To	

Analysis Batch: 36220

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	835.0		mg/Kg		83	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1005		mg/Kg		101	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

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Prep Batch: 36291

5

7

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum Project/Site: MCA 2A Header Main Line

Job ID: 890-3141-1 SDG: 03D2057023

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

Lab Sample ID: LCSD 88 Matrix: Solid	U-36291/3-A				C	ment Sa	mpie	ID: Lat			
									Prep Ty		
Analysis Batch: 36220			Spike	1.060	LCSD				%Rec	Batch: 3	RP
Analyta			Added		Qualifier	Unit	D	% Baa	Limits	RPD	Lim
Analyte				913.9	Quaimer			%Rec			2
Gasoline Range Organics (GRO)-C6-C10			1000	913.9		mg/Kg		91	70 - 130	9	2
Diesel Range Organics (Over			1000	1162		mg/Kg		116	70 - 130	14	2
C10-C28)			1000	1102		iiig/itg		110	10-100	14	-
	LCSD										
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: 890-3141	-1 MS							C	lient Sam		FSO
Matrix: Solid								Ŭ	Prep Ty	-	
Analysis Batch: 36220										Batch: 3	
Analysis Datch. 30220	Samplo	Sample	Spike	MS	MS				%Rec	Jaton.	J023
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0		998	805.4		mg/Kg		81	70 - 130		
GRO)-C6-C10	0010	C						0.			
Diesel Range Organics (Over	<50.0	U	998	972.6		mg/Kg		96	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	84		70 - 130								
Lab Sample ID: 890-3141	-1 MSD							С	lient Sam	ple ID:	FS0
Matrix: Solid									Prep Ty	pe: Tot	al/N
Analysis Batch: 36220									Prep E	Batch: 3	3629
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<50.0	U	999	800.0		mg/Kg		80	70 - 130	1	2
(GRO)-C6-C10										_	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	955.6		mg/Kg		94	70 - 130	2	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

Method: 300.0 - Anions, Ion Chromatography

81

o-Terphenyl

Lab Sample ID: MB 880-36241/1-A Matrix: Solid Analysis Batch: 36597					1	Client Sam	ple ID: Method Prep Type: S	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/10/22 22:26	1

70 - 130

Client: Ensolum Project/Site: MCA 2A Header Main Line

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880 Matrix: Solid)-36241/2-A					Clier	nt Sar	nple ID	: Lab Cor Prep T		
Analysis Batch: 36597									Fieb 1	ype. St	Juble
Analysis Baton: 00001			Spike	LCS	LCS				%Rec		
Analyte			Added	-	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	257.6		mg/Kg		103	90 - 110		
Lab Sample ID: LCSD 8	80-36241/3-A				c	lient Sa	mple	ID: Lat	o Control	Sample	e Dup
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 36597											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	256.4		mg/Kg		103	90 - 110	0	20
Lab Sample ID: 890-314	1-1 MS							С	lient Sam	ple ID:	FS06
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 36597											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	2300	F1	1260	3790	F1	mg/Kg		118	90 - 110		
Lab Sample ID: 890-314	1-1 MSD							С	lient Sam	ple ID:	FS06
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 36597											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2300	F1	1260	3686		mg/Kg		110	90 - 110	3	20
Lab Sample ID: 890-314	1-11 MS							С	lient Sam	ple ID:	FS16
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 36597											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	3180	F1	1250	4582	F1	mg/Kg		112	90 - 110		
Lab Sample ID: 890-314	1-11 MSD							С	lient Sam	ple ID:	FS16
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 36597											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3180	F1	1250	4577	F1	mg/Kg	_	112	90 - 110	0	20

Client: Ensolum Project/Site: MCA 2A Header Main Line

GC VOA

Prep Batch: 36588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	5035	
890-3141-2	FS07	Total/NA	Solid	5035	2
890-3141-3	FS08	Total/NA	Solid	5035	
890-3141-4	FS09	Total/NA	Solid	5035	
890-3141-5	FS10	Total/NA	Solid	5035	
890-3141-6	FS11	Total/NA	Solid	5035	
890-3141-7	FS12	Total/NA	Solid	5035	
890-3141-8	FS13	Total/NA	Solid	5035	3
890-3141-9	FS14	Total/NA	Solid	5035	-
890-3141-10	FS15	Total/NA	Solid	5035	
890-3141-11	FS16	Total/NA	Solid	5035	
890-3141-12	SW01	Total/NA	Solid	5035	
890-3141-13	SW02	Total/NA	Solid	5035	
890-3141-14	SW03	Total/NA	Solid	5035	
890-3141-15	SW04	Total/NA	Solid	5035	
890-3141-16	SW05	Total/NA	Solid	5035	
890-3141-17	SW06	Total/NA	Solid	5035	
MB 880-36588/5-A	Method Blank	Total/NA	Solid	5035	4
LCS 880-36588/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36588/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3141-1 MS	FS06	Total/NA	Solid	5035	
890-3141-1 MSD	FS06	Total/NA	Solid	5035	

Analysis Batch: 36674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	8021B	36588
890-3141-2	FS07	Total/NA	Solid	8021B	36588
890-3141-3	FS08	Total/NA	Solid	8021B	36588
890-3141-4	FS09	Total/NA	Solid	8021B	36588
890-3141-5	FS10	Total/NA	Solid	8021B	36588
890-3141-6	FS11	Total/NA	Solid	8021B	36588
890-3141-7	FS12	Total/NA	Solid	8021B	36588
890-3141-8	FS13	Total/NA	Solid	8021B	36588
890-3141-9	FS14	Total/NA	Solid	8021B	36588
890-3141-10	FS15	Total/NA	Solid	8021B	36588
890-3141-11	FS16	Total/NA	Solid	8021B	36588
890-3141-12	SW01	Total/NA	Solid	8021B	36588
890-3141-13	SW02	Total/NA	Solid	8021B	36588
890-3141-14	SW03	Total/NA	Solid	8021B	36588
890-3141-15	SW04	Total/NA	Solid	8021B	36588
890-3141-16	SW05	Total/NA	Solid	8021B	36588
890-3141-17	SW06	Total/NA	Solid	8021B	36588
MB 880-36588/5-A	Method Blank	Total/NA	Solid	8021B	36588
MB 880-36678/5-A	Method Blank	Total/NA	Solid	8021B	36678
LCS 880-36588/1-A	Lab Control Sample	Total/NA	Solid	8021B	36588
LCSD 880-36588/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36588
890-3141-1 MS	FS06	Total/NA	Solid	8021B	36588
890-3141-1 MSD	FS06	Total/NA	Solid	8021B	36588

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Job ID: 890-3141-1 SDG: 03D2057023

Client: Ensolum Project/Site: MCA 2A Header Main Line Job ID: 890-3141-1

SDG: 03D2057023

GC VOA

Prep Batch: 36678

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
1B 880-36678/5-A	Method Blank	Total/NA	Solid	5035		
ep Batch: 36699						
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
90-3141-18	SW07	Total/NA	Solid	5035		
B 880-36699/5-A	Method Blank	Total/NA	Solid	5035		
CS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	5035		
SD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
0-20232-A-1-A MS	Matrix Spike	Total/NA	Solid	5035		1
80-20232-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
alysis Batch: 3671	7					Ì
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
0-3141-18	SW07	Total/NA	Solid	8021B	36699	
B 880-36699/5-A	Method Blank	Total/NA	Solid	8021B	36699	
CS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	8021B	36699	
CSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36699	
80-20232-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	36699	I
80-20232-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36699	

Analysis Batch: 36753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	Total BTEX	
890-3141-2	FS07	Total/NA	Solid	Total BTEX	
890-3141-3	FS08	Total/NA	Solid	Total BTEX	
890-3141-4	FS09	Total/NA	Solid	Total BTEX	
890-3141-5	FS10	Total/NA	Solid	Total BTEX	
890-3141-6	FS11	Total/NA	Solid	Total BTEX	
890-3141-7	FS12	Total/NA	Solid	Total BTEX	
890-3141-8	FS13	Total/NA	Solid	Total BTEX	
890-3141-9	FS14	Total/NA	Solid	Total BTEX	
890-3141-10	FS15	Total/NA	Solid	Total BTEX	
890-3141-11	FS16	Total/NA	Solid	Total BTEX	
890-3141-12	SW01	Total/NA	Solid	Total BTEX	
890-3141-13	SW02	Total/NA	Solid	Total BTEX	
890-3141-14	SW03	Total/NA	Solid	Total BTEX	
890-3141-15	SW04	Total/NA	Solid	Total BTEX	
890-3141-16	SW05	Total/NA	Solid	Total BTEX	
890-3141-17	SW06	Total/NA	Solid	Total BTEX	
890-3141-18	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 36220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	8015B NM	36291
890-3141-2	FS07	Total/NA	Solid	8015B NM	36291
890-3141-3	FS08	Total/NA	Solid	8015B NM	36291
890-3141-4	FS09	Total/NA	Solid	8015B NM	36291
890-3141-5	FS10	Total/NA	Solid	8015B NM	36291
890-3141-6	FS11	Total/NA	Solid	8015B NM	36291

Client: Ensolum Project/Site: MCA 2A Header Main Line

GC Semi VOA (Continued)

Analysis Batch: 36220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3141-7	FS12	Total/NA	Solid	8015B NM	36291	
890-3141-8	FS13	Total/NA	Solid	8015B NM	36291	5
890-3141-9	FS14	Total/NA	Solid	8015B NM	36291	
890-3141-10	FS15	Total/NA	Solid	8015B NM	36291	
890-3141-11	FS16	Total/NA	Solid	8015B NM	36291	
890-3141-12	SW01	Total/NA	Solid	8015B NM	36291	
890-3141-13	SW02	Total/NA	Solid	8015B NM	36291	_
890-3141-14	SW03	Total/NA	Solid	8015B NM	36291	8
890-3141-15	SW04	Total/NA	Solid	8015B NM	36291	
890-3141-16	SW05	Total/NA	Solid	8015B NM	36291	9
890-3141-17	SW06	Total/NA	Solid	8015B NM	36291	
890-3141-18	SW07	Total/NA	Solid	8015B NM	36291 🧹	
MB 880-36291/1-A	Method Blank	Total/NA	Solid	8015B NM	36291	
LCS 880-36291/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36291	
LCSD 880-36291/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36291	
890-3141-1 MS	FS06	Total/NA	Solid	8015B NM	36291	
890-3141-1 MSD	FS06	Total/NA	Solid	8015B NM	36291	

Prep Batch: 36291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	8015NM Prep	· · · · · · · · · · · · · · · · · · ·
890-3141-2	FS07	Total/NA	Solid	8015NM Prep	
890-3141-3	FS08	Total/NA	Solid	8015NM Prep	
890-3141-4	FS09	Total/NA	Solid	8015NM Prep	
890-3141-5	FS10	Total/NA	Solid	8015NM Prep	
890-3141-6	FS11	Total/NA	Solid	8015NM Prep	
890-3141-7	FS12	Total/NA	Solid	8015NM Prep	
890-3141-8	FS13	Total/NA	Solid	8015NM Prep	
890-3141-9	FS14	Total/NA	Solid	8015NM Prep	
890-3141-10	FS15	Total/NA	Solid	8015NM Prep	
890-3141-11	FS16	Total/NA	Solid	8015NM Prep	
890-3141-12	SW01	Total/NA	Solid	8015NM Prep	
890-3141-13	SW02	Total/NA	Solid	8015NM Prep	
890-3141-14	SW03	Total/NA	Solid	8015NM Prep	
890-3141-15	SW04	Total/NA	Solid	8015NM Prep	
890-3141-16	SW05	Total/NA	Solid	8015NM Prep	
890-3141-17	SW06	Total/NA	Solid	8015NM Prep	
890-3141-18	SW07	Total/NA	Solid	8015NM Prep	
MB 880-36291/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36291/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36291/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3141-1 MS	FS06	Total/NA	Solid	8015NM Prep	
890-3141-1 MSD	FS06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 36359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Total/NA	Solid	8015 NM	
890-3141-2	FS07	Total/NA	Solid	8015 NM	
890-3141-3	FS08	Total/NA	Solid	8015 NM	
890-3141-4	FS09	Total/NA	Solid	8015 NM	
890-3141-5	FS10	Total/NA	Solid	8015 NM	

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Job ID: 890-3141-1 SDG: 03D2057023

Client: Ensolum Project/Site: MCA 2A Header Main Line

GC Semi VOA (Continued)

Analysis Batch: 36359 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3141-6	FS11	Total/NA	Solid	8015 NM	
890-3141-7	FS12	Total/NA	Solid	8015 NM	
890-3141-8	FS13	Total/NA	Solid	8015 NM	
890-3141-9	FS14	Total/NA	Solid	8015 NM	
890-3141-10	FS15	Total/NA	Solid	8015 NM	
890-3141-11	FS16	Total/NA	Solid	8015 NM	
890-3141-12	SW01	Total/NA	Solid	8015 NM	
890-3141-13	SW02	Total/NA	Solid	8015 NM	
890-3141-14	SW03	Total/NA	Solid	8015 NM	
890-3141-15	SW04	Total/NA	Solid	8015 NM	
890-3141-16	SW05	Total/NA	Solid	8015 NM	
890-3141-17	SW06	Total/NA	Solid	8015 NM	
890-3141-18	SW07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3141-1	FS06	Soluble	Solid	DI Leach	
890-3141-2	FS07	Soluble	Solid	DI Leach	
890-3141-3	FS08	Soluble	Solid	DI Leach	
890-3141-4	FS09	Soluble	Solid	DI Leach	
890-3141-5	FS10	Soluble	Solid	DI Leach	
890-3141-6	FS11	Soluble	Solid	DI Leach	
890-3141-7	FS12	Soluble	Solid	DI Leach	
890-3141-8	FS13	Soluble	Solid	DI Leach	
890-3141-9	FS14	Soluble	Solid	DI Leach	
890-3141-10	FS15	Soluble	Solid	DI Leach	
890-3141-11	FS16	Soluble	Solid	DI Leach	
890-3141-12	SW01	Soluble	Solid	DI Leach	
890-3141-13	SW02	Soluble	Solid	DI Leach	
890-3141-14	SW03	Soluble	Solid	DI Leach	
890-3141-15	SW04	Soluble	Solid	DI Leach	
890-3141-16	SW05	Soluble	Solid	DI Leach	
890-3141-17	SW06	Soluble	Solid	DI Leach	
890-3141-18	SW07	Soluble	Solid	DI Leach	
MB 880-36241/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36241/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36241/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3141-1 MS	FS06	Soluble	Solid	DI Leach	
890-3141-1 MSD	FS06	Soluble	Solid	DI Leach	
890-3141-11 MS	FS16	Soluble	Solid	DI Leach	
890-3141-11 MSD	FS16	Soluble	Solid	DI Leach	

Analysis Batch: 36597

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3141-1	FS06	Soluble	Solid	300.0	36241
890-3141-2	FS07	Soluble	Solid	300.0	36241
890-3141-3	FS08	Soluble	Solid	300.0	36241
890-3141-4	FS09	Soluble	Solid	300.0	36241
890-3141-5	FS10	Soluble	Solid	300.0	36241

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Job ID: 890-3141-1 SDG: 03D2057023

Client: Ensolum Project/Site: MCA 2A Header Main Line

HPLC/IC (Continued)

Analysis Batch: 36597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3141-6	FS11	Soluble	Solid	300.0	36241	
890-3141-7	FS12	Soluble	Solid	300.0	36241	5
890-3141-8	FS13	Soluble	Solid	300.0	36241	
890-3141-9	FS14	Soluble	Solid	300.0	36241	
890-3141-10	FS15	Soluble	Solid	300.0	36241	
890-3141-11	FS16	Soluble	Solid	300.0	36241	
890-3141-12	SW01	Soluble	Solid	300.0	36241	_
890-3141-13	SW02	Soluble	Solid	300.0	36241	8
890-3141-14	SW03	Soluble	Solid	300.0	36241	
890-3141-15	SW04	Soluble	Solid	300.0	36241	9
890-3141-16	SW05	Soluble	Solid	300.0	36241	
890-3141-17	SW06	Soluble	Solid	300.0	36241	
890-3141-18	SW07	Soluble	Solid	300.0	36241	
MB 880-36241/1-A	Method Blank	Soluble	Solid	300.0	36241	
LCS 880-36241/2-A	Lab Control Sample	Soluble	Solid	300.0	36241	
LCSD 880-36241/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36241	
890-3141-1 MS	FS06	Soluble	Solid	300.0	36241	
890-3141-1 MSD	FS06	Soluble	Solid	300.0	36241	
890-3141-11 MS	FS16	Soluble	Solid	300.0	36241	
890-3141-11 MSD	FS16	Soluble	Solid	300.0	36241	

Job ID: 890-3141-1

SDG: 03D2057023

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client Sample ID: FS06

Date Collected: 10/04/22 12:00

Date Received: 10/05/22 09:10

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

4.96 g

5 mL

10.01 g

1 uL

4.95 g

Dil

1

1

1

1

5

Factor

Run

Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-1

Analyst

EL

Prepared

or Analyzed

10/10/22 13:26

10/12/22 05:55 AJ

10/12/22 11:30 SM

10/07/22 10:01 SM

10/06/22 15:48 DM

10/06/22 21:19 SM

10/06/22 09:50 CH

10/10/22 22:49 CH

Batch

36588

36674

36753

36359

36291

36220

36241

36597

Number

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Matrix: Solid

Lab

EET MID

9 10

Lab Sample ID: 890-3141-2 Matrix: Solid

Lab Sample ID: 890-3141-3

Lab Sample ID: 890-3141-4

Matrix: Solid

Client Sample ID: FS07 Date Collected: 10/04/22 12:05 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.02 g	5 mL	36588	10/10/22 13:26	EL	EET MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 06:21	AJ	EET MID	
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID	
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36291	10/06/22 15:48	DM	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/06/22 22:24	SM	EET MID	
Soluble	Leach	DI Leach			5 g	50 mL	36241	10/06/22 09:50	СН	EET MID	
Soluble	Analysis	300.0		10			36597	10/10/22 23:12	СН	EET MID	

Client Sample ID: FS08 Date Collected: 10/04/22 12:10 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 06:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/06/22 22:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/10/22 23:20	CH	EET MID

Client Sample ID: FS09 Date Collected: 10/04/22 12:15 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 07:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID

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Matrix: Solid

Released to Imaging: 1/4/2023 12:15:53 PM

Job ID: 890-3141-1 SDG: 03D2057023

Lab Sample ID: 890-3141-4 Matrix: Solid

Date Collected: 10/04/22 12:15 Date Received: 10/05/22 09:10

Client Sample ID: FS09

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/06/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/10/22 23:28	СН	EET MID
Client Sam	ple ID: FS1	0						Lab Sample	e ID: 89	0-3141-5

Client Sample ID: FS10 Date Collected: 10/04/22 12:20 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 07:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/06/22 23:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		10			36597	10/10/22 23:35	CH	EET MID

Client Sample ID: FS11

Date Collected: 10/04/22 12:25 Date Received: 10/05/22 09:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 08:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/06/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/10/22 23:59	CH	EET MID

Client Sample ID: FS12 Date Collected: 10/04/22 12:30 Date Received: 10/05/22 09:10

	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	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 08:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 00:11	SM	EET MID

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Lab Sample ID: 890-3141-6

Lab Sample ID: 890-3141-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 890-3141-1 SDG: 03D2057023

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3141-7

Lab Sample ID: 890-3141-8

Client Sample ID: FS12 Date Collected: 10/04/22 12:30 Date Received: 10/05/22 09:10

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/11/22 00:06	СН	EET MID

Client Sample ID: FS13 Date Collected: 10/04/22 12:35 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 12:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 00:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/11/22 00:14	СН	EET MID

Client Sample ID: FS14 Date Collected: 10/04/22 12:40 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 12:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/11/22 00:22	СН	EET MID

Client Sample ID: FS15 Date Collected: 10/04/22 12:45 Date Received: 10/05/22 09:10

Lab Sample ID: 890-3141-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 13:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/11/22 00:29	CH	EET MID

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 10/11/22 00:14
 CH
 EET MID

 Lab Sample ID: 890-3141-9
 Matrix: Solid

Job ID: 890-3141-1 SDG: 03D2057023

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3141-11

Lab Sample ID: 890-3141-13

Lab Sample ID: 890-3141-14

Client Sample ID: FS16 Date Collected: 10/04/22 12:50 Date Received: 10/05/22 09:10

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 13:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		5			36597	10/11/22 00:37	СН	EET MID

Lab Sample ID: 890-3141-12

Date Collected: 10/04/22 12:55 Date Received: 10/05/22 09:10

Client Sample ID: SW01

	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	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 13:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 02:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 01:00	СН	EET MID

Client Sample ID: SW02 Date Collected: 10/04/22 13:00 Date Received: 10/05/22 09:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 14:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 01:08	СН	EET MID

Client Sample ID: SW03 Date Collected: 10/04/22 13:05 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 14:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID

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Matrix: Solid

9

|2 |3

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Job ID: 890-3141-1 SDG: 03D2057023

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3141-14

Lab Sample ID: 890-3141-15

Client Sample ID: SW03 Date Collected: 10/04/22 13:05 Date Received: 10/05/22 09:10

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 03:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 01:31	СН	EET MID

Client Sample ID: SW04 Date Collected: 10/04/22 13:10 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 15:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 03:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 01:39	CH	EET MID

Client Sample ID: SW05

Date Collected: 10/04/22 13:15 Date Received: 10/05/22 09:10

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 36588 10/10/22 13:26 EL EET MID Total/NA Analysis 8021B 1 5 mL 5 mL 36674 10/12/22 15:38 AJ EET MID Total/NA Analysis Total BTEX 1 36753 10/12/22 11:30 SM EET MID Total/NA 8015 NM 36359 Analysis 1 10/07/22 10:01 SM EET MID Total/NA Prep 8015NM Prep 10.05 g 36291 10/06/22 15:48 DM EET MID 10 mL Total/NA Analysis 8015B NM 1 1 uL 1 uL 36220 10/07/22 03:47 SM EET MID Soluble Leach **DI Leach** 5.02 g 50 mL 36241 10/06/22 09:50 CH EET MID Soluble Analysis 300.0 1 36597 10/11/22 01:47 CH EET MID

Client Sample ID: SW06 Date Collected: 10/04/22 13:20

Date Received: 10/05/22 09:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36588	10/10/22 13:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/12/22 16:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	36291 36220	10/06/22 15:48 10/07/22 04:09		EET MID EET MID

Eurofins Carlsbad

Lab Sample ID: 890-3141-16

Matrix: Solid

Lab Sample ID: 890-3141-17 Matrix: Solid

Job ID: 890-3141-1 SDG: 03D2057023

Client Sample ID: SW06 Date Collected: 10/04/22 13:20 Date Received: 10/05/22 09:10

Client: Ensolum

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 01:54	СН	EET MID

Client Sample ID: SW07 Date Collected: 10/04/22 13:25 Date Received: 10/05/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36717	10/12/22 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36753	10/12/22 11:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			36359	10/07/22 10:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36291	10/06/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36220	10/07/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36241	10/06/22 09:50	СН	EET MID
Soluble	Analysis	300.0		1			36597	10/11/22 02:02	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid Lab Sample ID: 890-3141-18 Matrix: Solid

9

Lab Sample ID: 890-3141-17

Accreditation/Certification Summary

Page 104 of 125

			si uncation Summary	
Client: Ensolum Project/Site: MCA 2A	Header Main Line			Job ID: 890-3141-1 SDG: 03D2057023
Laboratory: Euro	atory: Eurofins Midland			
Unless otherwise noted, al	l analytes for this laborato	ry were covered under e	ach accreditation/certification below.	
Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-22-24	06-30-23
The following analyte the agency does not o		rt, but the laboratory is n	ot certified by the governing authority.	This list may include analytes for which
0,		rt, but the laboratory is n Matrix	ot certified by the governing authority. Analyte	This list may include analytes for which
the agency does not	offer certification.	· · · · ·		This list may include analytes for which

Method Summary

Client: Ensolum Project/Site: MCA 2A Header Main Line

Job ID: 890-3141-1 SDG: 03D2057023

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3141-1	FS06	Solid	10/04/22 12:00	10/05/22 09:10	4'
890-3141-2	FS07	Solid	10/04/22 12:05	10/05/22 09:10	4'
890-3141-3	FS08	Solid	10/04/22 12:10	10/05/22 09:10	4'
890-3141-4	FS09	Solid	10/04/22 12:15	10/05/22 09:10	4'
890-3141-5	FS10	Solid	10/04/22 12:20	10/05/22 09:10	4'
890-3141-6	FS11	Solid	10/04/22 12:25	10/05/22 09:10	4'
890-3141-7	FS12	Solid	10/04/22 12:30	10/05/22 09:10	4'
890-3141-8	FS13	Solid	10/04/22 12:35	10/05/22 09:10	4'
890-3141-9	FS14	Solid	10/04/22 12:40	10/05/22 09:10	4'
890-3141-10	FS15	Solid	10/04/22 12:45	10/05/22 09:10	4'
890-3141-11	FS16	Solid	10/04/22 12:50	10/05/22 09:10	4'
890-3141-12	SW01	Solid	10/04/22 12:55	10/05/22 09:10	0-4'
890-3141-13	SW02	Solid	10/04/22 13:00	10/05/22 09:10	0-4'
890-3141-14	SW03	Solid	10/04/22 13:05	10/05/22 09:10	0-4'
890-3141-15	SW04	Solid	10/04/22 13:10	10/05/22 09:10	0-4'
890-3141-16	SW05	Solid	10/04/22 13:15	10/05/22 09:10	0-4'
890-3141-17	SW06	Solid	10/04/22 13:20	10/05/22 09:10	0-4'
890-3141-18	SW07	Solid	10/04/22 13:25	10/05/22 09:10	0-4'

					г	lobbs, NM	(575) 392	-7550, Ca	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199				of D
												×	Work Order Comments	
Company Name: E	Ensolum				Company Name:	ame:					Program		Program: UST/PST 🗌 PRP 🗍 Brownfields 🗌 RRC 🗌	RRC Superfund
	3122 National Parks Hwy	arks Hw	<		Address:						State of Project:	Project:		
te ZIP:	Carlsbad, NM 88220	3220			City, State ZIP;	IP.					Reporting	;: Level II □ Le	Reporting: Level II CLevel III PST/UST TRRP	
	303-887-2946			Email:	Email: kjennings@ensolum.com	pensolu	m.com				Deliverat	Deliverables: EDD	ADaPT C	Other:
Project Name:	MCA 2A Header Main Line	ader Ma	in Line	Turn	Turn Around					ANALYSIS	REQUEST		Pres	Preservative Codes
Project Number:	03D2	03D2057023		Routine	Rush	Code	@ 7"		-				None: NO	DI Water: H ₂ O
Project Location:	32.807923, -103.784172	-103.78		Due Date:									Cool: Cool	
Sampler's Name:	Kase	Kase Parker		TAT starts the	TAT starts the day received by	by							HCL: HC	HNU3: HN
PO#	-	-		the lab, if rec	the lab, it received by 4. supri-)	_	-				HaPOA: HP	U
Samples Received Intact:	Res		Thermometer ID:	-r 100.	TAN D	B am	300.0						NaHSO4: NABIS	NABIS
Cooler Custody Seals:	Yes No	习	Correction Factor:		-0-	.	PA:	_					Na ₂ S ₂ O ₃ : NaSO ₃	NaSO ₃
Sample Custody Seals:		NIA	Temperature Reading:	Reading:	8.1		S (E		-		and Clistody		Zn Acetate	Zn Acetate+NaOH: Zn
Total Containers:		0	Corrected Temperature:	mperature:	1.6	L	RIDE			90-3141 One			INDUT TO	
Sample Identification	ification	Matrix	Date Sampled	Time Sampled	Depth G	Grab/ # of Comp Cont	CHLOP	TPH (8 BTEX (San	Sample Comments
FS06		S	10/4/2022	12:00	4' (C 1	×	×××	Ê				Incident ID:	D
FS07		S 1	10/4/2022	12:05	4.	C 1	×	×××	Ê					
FS08		S	10/4/2022	12:10	4	C 1	×	××	Ê				Cost Center	nter:
FS09		S	10/4/2022	12:15	4	0	×	×	Ê					
FS10		S	10/4/2022	12:20	4	C 1	×	×	ŕ				AFE:	
FS11		s	10/4/2022	12:25	4' (C 1	×	××	Ê					
FS12		s	10/4/2022	12:30	4' (C 1	×	×						
ES13		6	10/4/2022	12:35	4		×	×						
FS14		S	10/4/2022	12:40	4' (C 1	×	××	ŕ					
FS15		s s	10/4/2022		4	0 1	×	× ×	Ê					
Total 200.7 / 6010	10 200.8 / 6020:	20:	8	8RCRA 13P	13PPM Texas 11	s 11 Al	10	Ba Be	B Cd Q	Ca Cr Co Cu Fe	Pb Mg	K Se	Ag SiO2 Na Sr TI	Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010; 8RCRA Sb As Ba Be Cd Cr Co Cu PD Min Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcont Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcont	d Metal(s) to be ocument and relinqui	analyze	ed samples cons	TCLP / S	TCLP / SPLP 6010: BRCRA	from clien	t company	s Ba Be to Eurofins	Xenco, Ita	Sb As Ba Be Cd Cr Co Cu Pb Mn company to Eurofins Xenco, its affiliates and subcont	MO NI VE AG 11 U MG International conditions	tandard terms and	rig. 10317243.177470 d conditions d the control	
of Eurofins Xpeco. Aminimum charge of \$86.00 will be applied to each project and a charge of \$6.10 minute submitted to Eurofins Active, but not analyzed intervention and a charge of \$6.00 minute and a charge of \$6.00 minute submitted to Eurofine submitted	mum charge of \$85.0	o will be ap	piled to each	project and a c	narge of so for	each sam			In Veilo					Debitimo
Refinquished by:	(8ignature)		Received	Received by: (Signature)	iture)		Date/ I Ime	Ime	7	Kelinguisned by: (a	oignature)	Necelver	Neceived by: (Signature)	Dawinnin
allon a la 1	.22	2	4-00	a s	hat	(1)	(D Jala)	2 09	9/0					

Chain of Custody

	Xenco	100			EL Paso, T Hobbs, NN	.X (915) 51 1 (575) 393	35-3443, Lu 2-7550, Car	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		www.xenco.com	co.com Page Z of Z	
Project Manager: Kal	Kalei Jennings			Bill to: (if different)	different)	Kalei	Kalei Jennings			Work (on	
	Ensolum			Company Name:	Name:				Program:	UST/PST PRP	Program: UST/PST PRP Brownfields RRC Superfund	
	3122 National Parks Hwy	arks Hwy		Address:					State of Project:	roject:]]
e ZIP:	Carlsbad, NM 88220	220		City, State ZIP:	e ZIP:				Reporting:	Level II CLevel III		Z
	303-887-2946		Е	Email: kjenning	kjennings@ensolum.com	im.com			Deliverables: EDD	35: EDD	ADaPT D Other:	
Project Name:	MCA 2A Header Main Line	der Main Li	ne	Turn Around				ANALYSIS REI	REQUEST		Preservative Codes	
Project Number:	03D2057023	57023	Routine	tine 🔲 Rush	Code	6 ,9	-				None: NO DI Water: H ₂ O	H ₂ O
Project Location:	32.807923, -103.784172	-103.78417	2 Due Date:	ate:							⊻	ср
Sampler's Name:	Kase Parker	Parker		TAT starts the day received by	ved by					_		
PO #:			the lab	the lab, if received by 4:30pm	-		+				H ₂ S0 ₄ : H ₂ NaCH: Na	
SAMPLE RECEIPT	Temp Blank:	ink: Yes	No Wet Ice:	ce: (Tes No	Z nete						H ₃ PO ₄ : HP	
Samples Received Intact:			Thermometer ID:	TAN	9						NaHSO4: NABIS	
Cooler Custody Seals:	Yes No	NTA Corre	Correction Factor:	-0,	μ							
Sample Custody Seals:	Yes No	N/A Temp	Temperature Reading:	3, 1 19		ES (I					An Acetater Nach: And	
- Citer Contradictioner		D	Date Time	0	Grab/ # of	.ORII	I (801				Sample Comments	
		Daidurec	6		Comp Com	T	+					
FS16		_	10/4/2022 12:50			< ×	< >				1100001151001	
SW04		S 10/4/			-+	-+	+		_		Cost Center:	
SW05)5 0-4	0 1		x x					
SW06				0 0-4'	0 1	×	××				AFE:	
SW07		S 10/4/	10/4/2022 13:15	5 0-4	C 1	×	×					
SW08		S 10/4/	10/4/2022 13:20	0 0-4	0	×	×					
SM09		S 10/4/	10/4/2022 13:25	6	6	7	×					
		-					+					
Total 200.7 / 6010	200.8 / 6020:	20:	8RCRA	13PPM Te	Texas 11 Al	I Sb As	Ba Be	B Cd Ca Cr Co Cu Fe Pb	o Mg Mn Mo	Ni K Se A	SIO ₂ Na Sr TI Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be	analyzed	TCL	TCLP / SPLP 6010: 8RCRA	0: BRCR/		s Ba Be	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Mo Ni Se Ag	TI U Hg:	Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this docu of service. Eurofins Xenco wi of Eurofins Xence-A minimur	Iment and relinquia III be flable only for m charge of \$85.00	the cost of samp will be applied	nples constitutes a nples and shall n to each project a	valid purchase or ot assume any res ind a charge of \$5	der from cliei sponsibility fo for each sam	nt company or any losse ple submit	r to Eurofins is or expens ted to Eurofi	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, the affiliates and subcontractors, it assigns standard terms and conditions of service. Eurofins Xenco, the affiliates and subcontractors, it assigns standard terms and conditions of service. Eurofins Xenco, the curred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat of each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	s. It assigns sta are due to circu ns will be enforce	actors. It assigns standard terms and conditions sses are due to circumstances beyond the control terms will be enforced unless previously negotiated.	litions control egotiated.	
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Page 108 of 125

Chain of Custody

11/23/2022 (Rev. 1)
Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3141 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 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	N/A	

Job Number: 890-3141-1 SDG Number: 03D2057023

List Source: Eurofins Midland

List Creation: 10/06/22 10:20 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3141 List Number: 2 С

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	

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

Received by OCD: 11/29/2022 4:34:48 PM

15

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 11/23/2022 12:56:52 PM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies



APPENDIX D

FINAL C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2225231205
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: <u>Bryce.Wagoner@mavresources.com</u>	Incident # (assigned by OCD) NAPP2225231205
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.807923_

Longitude -103.784172_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name MCA 2A Main Line	Site Type
Date Release Discovered September 1, 2022	API# (if applicable) 30-025-00753

Unit Letter	Section	Township	Range	County
Н	29	17S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 0.4 bbls	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 35.1 bbls	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by an injection line due to possible inner corrosion. The release occurred off pad. The source of the release has been stopped and the impacted area has been secured.

orm C-141	22 4:34:48 PM State of New Mexico	Incident ID	Page 114 of NAPP2225231205
ge 2	Oil Conservation Division	District RP	NAI 1 2223231203
		Facility ID	
		Application ID	
Was this a major release as defined by	If YES, for what reason(s) does the responsible part	ty consider this a major release	?
19.15.29.7(A) NMAC?	Release volume greater than 25 bbls.		
Yes 🗌 No			
	otice given to the OCD? By whom? To whom? Who ven by Kalei Jennings with Ensolum on behalf of May		
11:12AM to <u>ocd.enviro@</u>		Venck Fermian via eman on Se	plember 2, 2022 at
	I *** I D		
	Initial Response	e	
The responsible	party must undertake the following actions immediately unless they	y could create a safety hazard that wo	ıld result in injury
\square The source of the rel	ease has been stopped.		
The impacted area ha	as been secured to protect human health and the enviro	onment.	
Released materials h	ave been contained via the use of berms or dikes, abso	orbent pads, or other containme	ent devices.
\square All free liquids and r	ecoverable materials have been removed and managed	d appropriately.	
•	d above have <u>not</u> been undertaken, explain why:		
	a uoove nuve <u>nev</u> eeen undertaken, explain viry.		
			<u> </u>
D 10 15 00 0 D (1) 35			
	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts have		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature:	Date:09/08/2022
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by:	Date:

NAPP2225231205

Pooled Fluids on the Surface										
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0. don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	60.0	10.0	4.0	4.0	0.01	600.0	0.1	8.9	0.09	8.81
Rectangle B	31.0	25.0	5.0	4.0	0.01	775.0	0.1	14.4	0.14	14.23
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls): 23.27 0.23 23.04									

	Subsurface Fluids									
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	85.0	25.0	2.0	0.1	0.01	2125.0	63.0	5.0	0.05	5.0
Rectangle B	21.0	10.0	2.0	0.1	0.01	210.0	6.2	0.5	0.00	0.5
Rectangle C	45.0	38.0	3.0	0.1	0.01	1710.0	76.1	6.1	0.06	6.0
Rectangle D	28.0	7.0	2.0	0.1	0.01	196.0	5.8	0.5	0.00	0.5
Rectangle E	20.0	15.0	0.3	0.1	0.01	300.0	1.1	0.1	0.00	0.1
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
						Total Vol	ume (bbls):	12.18	0.12	12.06

TOTAL RELEASE VOLUME (bbls): 35.5

Oil Conservation Division

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Incident ID	NAPP2225231205	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100 (f</u> eet bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗴 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

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- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD:	11/29/2022 4:34:48 PM State of New Mexico		Page 117 of 125
Form C-141		Incident ID	NAPP2225231205
Page 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
regulations all open public health or the failed to adequately addition, OCD acc and/or regulations. Printed Name: Signature:	_Bryce Wagoner Title: _Permiar	form corrective actions for rele- ieve the operator of liability sho er, surface water, human health	ases which may endanger ould their operations have or the environment. In
	Jocelyn Harimon Date:	11/29/2022	

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Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule: and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Bryce Wagoner Title:Permian HSE Specialist II Signature: Date:11/23/2022 email:bryce.wagoner@mavresources.com Telephone:928-241-1862
OCD Only
Received by: Jocelyn Harimon Date: 11/29/2022
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate an remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Qennifer Nobui Date: 01/04/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A



APPENDIX E

NMOCD NOTIFICATIONS

Released to Imaging: 1/4/2023 12:15:53 PM

Elizabeth Stuart

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Thursday, September 22, 2022 3:13 PM
То:	Kalei Jennings
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	FW: [EXTERNAL] Maverick- Sampling Notification (Week of 09/26/22-09/30/22)

[**EXTERNAL EMAIL**]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, September 22, 2022 2:08 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 09/26/22-09/30/22)

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Thursday, September 22, 2022 2:04 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 09/26/22-09/30/22)

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

All,

Maverick Natural Resources plans to complete final sampling activities at the following sites the week of September 26, 2022.

Monday:

- SEMU BMT/NAPP2216134591
- MCA 2A Main Line / NAPP2225231205

Tuesday:

- SEMU BMT/NAPP2216134591
- MCA 2A Main Line / NAPP2225231205

Wednesday:

.

Thursday:

• MCA 94 / NAPP2212531906

Friday:

• MCA 94 / NAPP2212531906

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC in f

Elizabeth Stuart

From:	Morgan, Crisha A <camorgan@blm.gov></camorgan@blm.gov>
Sent:	Wednesday, September 14, 2022 9:04 PM
То:	Kalei Jennings; CFO_Spill, BLM_NM
Subject:	Re: [EXTERNAL] Maverick Permian-BLM Access Request-MCA 2A Main Line / Spill Date 09/01/2022
Attachments:	Seed_Mixture_2 LPC.doc

[**EXTERNAL EMAIL**]

My Environmental Impact Review is as follows:

BLM Surface/Minerals

No Cave /Karst

No Archaeology survey will be required as this release falls within a pre-existing surveyed space.

This release falls within Lesser Prairie-Chicken and Dunes Sagebrush Lizard habitats. Timing restrictions will apply.

This location will require BLM Seed Mixture #2 for LPC. I have attached a copy of the seed mix requirements for your records.

Please consider this BLM's approval to move forward with deliniation and remediation of this spill.

Please let me know if you need anything further, or have any additional questions.

Crisha A. Morgan |Certified - Environmental Protection Specialist | Program Officer |COR| Spills Coordinator | Orphaned Well POC Lead Bureau of Land Management | Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220 Cell 575-200-8648 | Office 575-234-5987 |<u>camorgan@blm.gov</u>



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From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, September 7, 2022 3:43 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Subject: [EXTERNAL] Maverick Permian-BLM Access Request-MCA 2A Main Line / Spill Date 09/01/2022

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Crisha,

Please see the attached documents requesting access to BLM land to remediate soil impacted by a release of produced water at MCA 2A Main Line / Spill Date 09/01/2022 located off pad at 32.807923, -103.784172.

The soil will be excavated and transported to a licensed disposal facility. All remediation activities will comply with NMOCD spill rules (19.15.29 NMAC). Equipment, materials, crew, and environmental oversight will be present on BLM land. Please see attached documents for review:

- Sundry Form 3160
- Kmz to include proposed land access area

Please let me know if you have any questions.

Thank you,



Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	162323
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	1/4/2023

Action 162323