August 5, 2022

District 1
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: Closure Request
Zia Hills 25E
Incident Number NAPP2205439117
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Zia Hills 25E (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil at the Site. Based on the excavation activities and analytical results from the soil sampling events, COP is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2205439117.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 25, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0162698° N, 103.6258639° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 9, 2022, an oil line was struck resulting in the release of approximately 2.5 barrels (bbls) of crude oil onto the lease road and adjacent pasture. No released fluids were recovered. COP reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 23, 2022. The release was assigned Incident Number NAPP2205439117.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, 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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02271-POD2, located approximately 3.5 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 250 feet bgs and a total depth of 270 feet bgs. Regionally, deptht to water ranges from

107 feet to 450 feet bgs. Depth to water beneath the Site has been reasonally determined to be greater than 100 feet bgs based on nearby water well data and regional depth to measurements. 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 an emergent wetland, located approximately 3,045 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top4 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.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 5, 2022, stained soil was excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed via hand shoveling and back-hoe. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 0.5 feet bgs. Photographic documentation is included in Appendix B.

The excavation measured approximately 400 square feet. A total of approximately 10 cubic yards of stained soil was removed during the excavation activities. The stained soil was transported and properly disposed of at the R30 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.

Following removal of stained soil, 5-point composite soil samples were collected every 200 square feet from the floor 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 and FS02 were collected from the floor of the excavation at a depth of 0.5 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. To confirm the lateral extent of the release, four lateral delineation soil samples (SS01 through SS04) were collected around the visible release extent at a depth of 0.5 feet bgs. The excavation extent, excavation soil sample locations, and delineation soil sample locations are presented on Figure 2.

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 (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of 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 excavation floor samples FS01 and FS02 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. In addition, the lateral delineation samples were compliant with the reclamation requirement and successfully define the lateral extent of the release. 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 February 9, 2022, release of crude oil. Laboratory analytical results for the excavation soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. Additionally, the release was laterally delineated to the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COP backfilled 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 impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COP believes these remedial actions are protective of human health, the environment, and groundwater. COP respectfully requests closure for Incident Number NAPP2205439117. 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

Kalei Jennings
Senior Scientist

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

cc: Charles Beauvais, ConocoPhillips
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation

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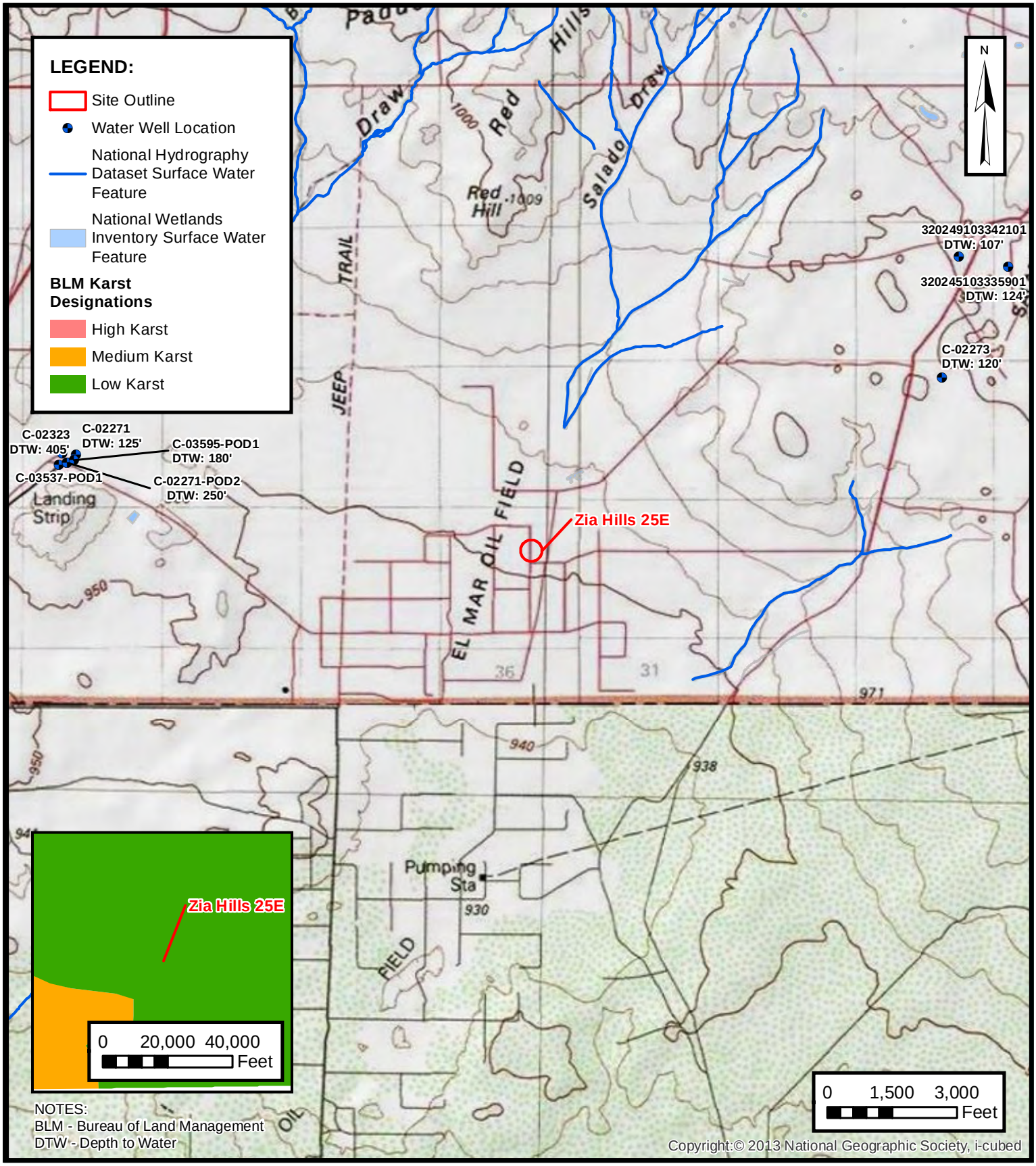
FIGURES



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Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

CONOCOPHILLIPS COMPANY
ZIA HILLS 25E
NAPP2205439117
Unit G, Sec 25 T26S R32E
Lea County, New Mexico

FIGURE
1

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EXCAVATION SOIL SAMPLE LOCATIONS

CONOCOPHILLIPS COMPANY
ZIA HILLS 25E
NAPP2205439117
Unit G, Sec 25 T26S R32E
Lea County, New Mexico

FIGURE
2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Zia Hills 25E
ConocoPhillips Company
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**	**NE**	**100**	**600**
Excavation Floor Soil Samples										
FS01	5/5/2022	0.5	<0.000383	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	5.50*
FS02	5/5/2022	0.5	<0.000382	<0.00100	<14.9	45.7	<14.9	45.7	45.7	11.9*
Delineation Soil Samples										
SS01	07/19/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	<5.03*
SS02	07/19/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.86*
SS03	07/19/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00*
SS04	07/19/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.12*

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.

ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
* 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
Grey text represents samples that have been excavated

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APPENDIX A

Referenced Well Records

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 02271 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: PDL NON 72-12-1 DOMESTIC & LIVESTOCK

Primary Status: DCL DECLARATION

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: CERBERUS LAND & CATTLE CO. LLC

Contact: AARON K. DAVIS

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	716536	COWNF	2021-09-29	CHG	PRC	C 02271	T	0	0	
get images	537020	COWNF	2012-02-22	CHG	PRC	C 02271	T	0	0	
get images	198439	DCL	1994-02-25	DCL	PRC	C 02271 AMENDED	T	0	3	
get images	537012	DCL	1992-10-19	DCL	PRC	C 02271 AMENDED	T	0	3	
get images	198428	DCL	1984-03-05	DCL	PRC	C 02271	T	0	3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 02271 POD2		Shallow	3	2	3	21	26S	32E	624348	3544010*	MEXICO WELLS

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
12/31/1909	DCL	0	3	C 02271 POD2	Shallow

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	3		PDL	12/31/1909	DCL	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		PDL	12/31/1909	GW	

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 02271 POD2	3	2	3	21	26S	32E	624348	3544010*

Driller License:	208	**Driller Company:**	VAN NOY, W.L.		
Driller Name:	W.L. VAN NOY				
Drill Start Date:	08/28/1992	**Drill Finish Date:**	09/09/1992	**Plug Date:**	
Log File Date:	10/28/1992	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**		**Estimated Yield:**	15 GPM
Casing Size:	6.38	**Depth Well:**	270 feet	**Depth Water:**	250 feet

Water Bearing Stratifications:	Top	Bottom	Description
	225	265	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	205	265

***UTM location was derived from PLSS - see Help**

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APPENDIX B

Photographic Log

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Photographic Log
ConocoPhillips Company
Zia Hills 25E
Incident Number NAPP2205439117

Photograph 1
Date: May 5, 2022
Description: View of area prior to remediation activities.

Photograph 2
Date: May 5, 2022
Description: View of excavation activities.

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APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14491-1
Client Project/Site: Zia Hills 25E

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
5/16/2022 11:39:14 AM

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

Client: Ensolum
Project/Site: Zia Hills 25E

Laboratory Job ID: 880-14491-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-14491-1
Project/Site: Zia Hills 25E

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

Job ID: 880-14491-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14491-1

Receipt
The samples were received on 5/6/2022 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA
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 method blank for preparation batch 880-25005 and analytical batch 880-25019 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-25059 and analytical batch 880-25068 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25059/3-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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 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: Zia Hills 25E

Job ID: 880-14491-1

Client Sample ID: FS01

Lab Sample ID: 880-14491-1
Matrix: Solid
Date Collected: 05/05/22 10:50
Date Received: 05/06/22 10:35
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		05/11/22 09:22	05/13/22 12:13	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		05/11/22 09:22	05/13/22 12:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		05/11/22 09:22	05/13/22 12:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		05/11/22 09:22	05/13/22 12:13	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		05/11/22 09:22	05/13/22 12:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		05/11/22 09:22	05/13/22 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/11/22 09:22*	*05/13/22 12:13*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/11/22 09:22*	*05/13/22 12:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			05/14/22 16:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			05/09/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 12:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 12:32	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 12:32	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*05/09/22 08:51*	*05/09/22 12:32*	*1*
o-Terphenyl	*121*		*70 - 130*	*05/09/22 08:51*	*05/09/22 12:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.50**		4.99	0.857	mg/Kg			05/11/22 14:58	1

Client Sample ID: FS02

Lab Sample ID: 880-14491-2
Matrix: Solid
Date Collected: 05/05/22 11:02
Date Received: 05/06/22 10:35
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		05/11/22 09:22	05/13/22 12:38	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		05/11/22 09:22	05/13/22 12:38	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		05/11/22 09:22	05/13/22 12:38	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		05/11/22 09:22	05/13/22 12:38	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		05/11/22 09:22	05/13/22 12:38	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		05/11/22 09:22	05/13/22 12:38	1

Client Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

Client Sample ID: FS02

Date Collected: 05/05/22 11:02
Date Received: 05/06/22 10:35
Sample Depth: 0.5

Lab Sample ID: 880-14491-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/11/22 09:22*	*05/13/22 12:38*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/11/22 09:22*	*05/13/22 12:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			05/14/22 16:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**45.7**	**J**	49.8	14.9	mg/Kg			05/09/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		05/06/22 17:12	05/08/22 06:25	1
Diesel Range Organics (Over C10-C28)	**45.7**	**J B**	49.8	14.9	mg/Kg		05/06/22 17:12	05/08/22 06:25	1
OII Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		05/06/22 17:12	05/08/22 06:25	1
Total TPH	**45.7**	**J B**	49.8	14.9	mg/Kg		05/06/22 17:12	05/08/22 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/06/22 17:12*	*05/08/22 06:25*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/06/22 17:12*	*05/08/22 06:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		4.97	0.853	mg/Kg			05/11/22 15:07	1

Surrogate Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-14491-1	FS01	98	95
880-14491-1 MS	FS01	109	104
880-14491-1 MSD	FS01	87	99
880-14491-2	FS02	118	104
LCS 880-25310/1-A	Lab Control Sample	95	101
LCSD 880-25310/2-A	Lab Control Sample Dup	96	107
MB 880-25310/5-A	Method Blank	74	96

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-14491-1	FS01	121	121
880-14491-1 MS	FS01	96	85
880-14491-1 MSD	FS01	99	87
880-14491-2	FS02	88	88
880-14493-A-1-B MS	Matrix Spike	91	87
880-14493-A-1-C MSD	Matrix Spike Duplicate	98	94
LCS 880-25005/2-A	Lab Control Sample	82	79
LCS 880-25059/2-A	Lab Control Sample	118	106
LCSD 880-25005/3-A	Lab Control Sample Dup	81	78
LCSD 880-25059/3-A	Lab Control Sample Dup	137 S1+	120
MB 880-25005/1-A	Method Blank	84	89
MB 880-25059/1-A	Method Blank	95	96

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25310/5-A
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25310

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		05/11/22 09:22	05/13/22 11:47	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		05/11/22 09:22	05/13/22 11:47	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		05/11/22 09:22	05/13/22 11:47	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		05/11/22 09:22	05/13/22 11:47	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		05/11/22 09:22	05/13/22 11:47	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		05/11/22 09:22	05/13/22 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*05/11/22 09:22*	*05/13/22 11:47*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/11/22 09:22*	*05/13/22 11:47*	*1*

Lab Sample ID: LCS 880-25310/1-A
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1103		mg/Kg		110	70 - 130		
Toluene			0.100	0.1036		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09909		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1991		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09989		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-25310/2-A
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1099		mg/Kg		110	70 - 130	0	35
Toluene			0.100	0.1003		mg/Kg		100	70 - 130	3	35
Ethylbenzene			0.100	0.1019		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2070		mg/Kg		103	70 - 130	4	35
o-Xylene			0.100	0.09990		mg/Kg		100	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-14491-1 MS
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 25310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000383	U	0.0990	0.09005		mg/Kg		91	70 - 130		
Toluene	<0.000453	U	0.0990	0.09293		mg/Kg		94	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

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

Lab Sample ID: 880-14491-1 MS
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 25310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000562	U	0.0990	0.09230		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00100	U	0.198	0.1851		mg/Kg		93	70 - 130
o-Xylene	<0.000342	U	0.0990	0.08870		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-14491-1 MSD
Matrix: Solid
Analysis Batch: 25497

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 25310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.100	0.09375		mg/Kg		93	70 - 130	4	35
Toluene	<0.000453	U	0.100	0.08673		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.000562	U	0.100	0.09054		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	<0.00100	U	0.201	0.1824		mg/Kg		91	70 - 130	1	35
o-Xylene	<0.000342	U	0.100	0.09008		mg/Kg		90	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-25005/1-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25005

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		05/06/22 17:12	05/07/22 21:59	1
Diesel Range Organics (Over C10-C28)	21.79	J	50.0	15.0	mg/Kg		05/06/22 17:12	05/07/22 21:59	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		05/06/22 17:12	05/07/22 21:59	1
Total TPH	21.79	J	50.0	15.0	mg/Kg		05/06/22 17:12	05/07/22 21:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*05/06/22 17:12*	*05/07/22 21:59*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/22 17:12*	*05/07/22 21:59*	*1*

Lab Sample ID: LCS 880-25005/2-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.1		mg/Kg		83	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

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

Lab Sample ID: LCS 880-25005/2-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	844.6		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: LCSD 880-25005/3-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25005

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	809.6		mg/Kg		81	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	831.1		mg/Kg		83	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-25059/1-A
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25059

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.25	J	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 11:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 11:29	1
OII Range Organics (Over C28-C36)	17.39	J	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 11:29	1
Total TPH	37.64	J	50.0	15.0	mg/Kg		05/09/22 08:51	05/09/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/09/22 08:51*	*05/09/22 11:29*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/09/22 08:51*	*05/09/22 11:29*	*1*

Lab Sample ID: LCS 880-25059/2-A
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.9		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1188		mg/Kg		119	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

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

Lab Sample ID: LCS 880-25059/2-A
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25059

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

Lab Sample ID: LCSD 880-25059/3-A
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25059

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1119		mg/Kg		112	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1290		mg/Kg		129	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-14491-1 MS
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 25059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	923.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	1000	917.3		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-14491-1 MSD
Matrix: Solid
Analysis Batch: 25068

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 25059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	998	923.6		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<15.0	U	998	948.4		mg/Kg		95	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A
Matrix: Solid
Analysis Batch: 25317

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			05/11/22 10:12	1

Lab Sample ID: LCS 880-24971/2-A
Matrix: Solid
Analysis Batch: 25317

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.0		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-24971/3-A
Matrix: Solid
Analysis Batch: 25317

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.4		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-14491-1

GC VOA

Prep Batch: 25310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	5035	
880-14491-2	FS02	Total/NA	Solid	5035	
MB 880-25310/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25310/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25310/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14491-1 MS	FS01	Total/NA	Solid	5035	
880-14491-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 25497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	8021B	25310
880-14491-2	FS02	Total/NA	Solid	8021B	25310
MB 880-25310/5-A	Method Blank	Total/NA	Solid	8021B	25310
LCS 880-25310/1-A	Lab Control Sample	Total/NA	Solid	8021B	25310
LCSD 880-25310/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25310
880-14491-1 MS	FS01	Total/NA	Solid	8021B	25310
880-14491-1 MSD	FS01	Total/NA	Solid	8021B	25310

Analysis Batch: 25567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	Total BTEX	
880-14491-2	FS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 25005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-25005/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25005/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25005/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-2	FS02	Total/NA	Solid	8015B NM	25005
MB 880-25005/1-A	Method Blank	Total/NA	Solid	8015B NM	25005
LCS 880-25005/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25005
LCSD 880-25005/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25005

Prep Batch: 25059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	8015NM Prep	
MB 880-25059/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25059/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14491-1 MS	FS01	Total/NA	Solid	8015NM Prep	
880-14491-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	8015B NM	25059

QC Association Summary

Client: Ensolum
Job ID: 880-14491-1
Project/Site: Zia Hills 25E

GC Semi VOA (Continued)

Analysis Batch: 25068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25059/1-A	Method Blank	Total/NA	Solid	8015B NM	25059
LCS 880-25059/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25059
LCSD 880-25059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25059
880-14491-1 MS	FS01	Total/NA	Solid	8015B NM	25059
880-14491-1 MSD	FS01	Total/NA	Solid	8015B NM	25059

Analysis Batch: 25123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Total/NA	Solid	8015 NM	
880-14491-2	FS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Soluble	Solid	DI Leach	
880-14491-2	FS02	Soluble	Solid	DI Leach	
MB 880-24971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 25317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14491-1	FS01	Soluble	Solid	300.0	24971
880-14491-2	FS02	Soluble	Solid	300.0	24971
MB 880-24971/1-A	Method Blank	Soluble	Solid	300.0	24971
LCS 880-24971/2-A	Lab Control Sample	Soluble	Solid	300.0	24971
LCSD 880-24971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24971

Lab Chronicle

Client: Ensolum
Job ID: 880-14491-1
Project/Site: Zia Hills 25E

Client Sample ID: FS01
Lab Sample ID: 880-14491-1
Date Collected: 05/05/22 10:50
Matrix: Solid
Date Received: 05/06/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			25310	05/11/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1	25497	05/13/22 12:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	25567	05/14/22 16:04	MR	XEN MID
Total/NA	Analysis	8015 NM		1	25123	05/09/22 13:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			25059	05/09/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1	25068	05/09/22 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			24971	05/06/22 16:02	SC	XEN MID
Soluble	Analysis	300.0		1	25317	05/11/22 14:58	CH	XEN MID

Client Sample ID: FS02
Lab Sample ID: 880-14491-2
Date Collected: 05/05/22 11:02
Matrix: Solid
Date Received: 05/06/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			25310	05/11/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1	25497	05/13/22 12:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	25567	05/14/22 16:04	MR	XEN MID
Total/NA	Analysis	8015 NM		1	25123	05/09/22 13:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			25005	05/06/22 17:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	25019	05/08/22 06:25	AJ	XEN MID
Soluble	Leach	DI Leach			24971	05/06/22 16:02	SC	XEN MID
Soluble	Analysis	300.0		1	25317	05/11/22 15:07	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-14491-1
Project/Site: Zia Hills 25E

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum Job ID: 880-14491-1
Project/Site: Zia Hills 25E

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Job ID: 880-14491-1
Project/Site: Zia Hills 25E

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14491-1	FS01	Solid	05/05/22 10:50	05/06/22 10:35	0.5
880-14491-2	FS02	Solid	05/05/22 11:02	05/06/22 10:35	0.5

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 14491

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Project Manager	Kalei Jennings	Bill to (if different)	Kalei Jennings
Company Name	Ensolum	Company Name	
Address		Address	
City State ZIP		City State ZIP	
Phone	817-603-2503	Email	Kjennings@ensolum.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level I ☒ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☒ ADaPT ☐ Other

Project Name	Zia Hills 25E	Turn Around	
Project Number		Routine	☒
Project Location		Rush	☐
Sampler's Name	Hadlie Green	Due Date	SDAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.2/4.0	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.2
Sample Custody Seals	Yes No (N/A)	Total Containers	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015	BTEX 8021	CHLORIDES 300
FS01	SL	5-5-22	1050	0.5	1	X	X	X
FS02	↓	↓	1102	0.5	↓	X	X	X

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments

880-14491 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		5/6/22 10:35	2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

5/16/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-14491-1

Login Number: 14491 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-17105-1
Laboratory Sample Delivery Group: NM
Client Project/Site: Zia Hills 25E

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
7/21/2022 1:28:38 PM

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

Client: Ensolum
Project/Site: Zia Hills 25E

Laboratory Job ID: 880-17105-1
SDG: NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-17105-1
Project/Site: Zia Hills 25E SDG: NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Job ID: 880-17105-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-17105-1

Receipt
The samples were received on 7/19/2022 3:34 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 1.7°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30115 and analytical batch 880-30094 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30104 and analytical batch 880-30161 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 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-30104/1-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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30086 and analytical batch 880-30177 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: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Client Sample ID: SS01

Lab Sample ID: 880-17105-1
Matrix: Solid
Date Collected: 07/19/22 12:00
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/20/22 11:27	07/21/22 05:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/22 11:27	07/21/22 05:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/20/22 11:27	07/21/22 05:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/20/22 11:27	07/21/22 05:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/20/22 11:27	07/21/22 05:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/20/22 11:27	07/21/22 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/20/22 11:27*	*07/21/22 05:37*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*07/20/22 11:27*	*07/21/22 05:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/21/22 09:56	1

Method: 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			07/21/22 11:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:04*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U F1	5.03		mg/Kg			07/20/22 21:14	1

Client Sample ID: SS02

Lab Sample ID: 880-17105-2
Matrix: Solid
Date Collected: 07/19/22 12:07
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/21/22 05:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/21/22 05:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/21/22 05:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/20/22 11:27	07/21/22 05:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/21/22 05:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/20/22 11:27	07/21/22 05:58	1

Client Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Client Sample ID: SS02

Date Collected: 07/19/22 12:07
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Lab Sample ID: 880-17105-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/20/22 11:27*	*07/21/22 05:58*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/20/22 11:27*	*07/21/22 05:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/21/22 09:56	1

Method: 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			07/21/22 11:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/22 10:19	07/20/22 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/22 10:19	07/20/22 19:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/22 10:19	07/20/22 19:26	1
Total TPH	<49.9	U	49.9	mg/Kg		07/20/22 10:19	07/20/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:26*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.86**		4.97	mg/Kg			07/20/22 21:37	1

Client Sample ID: SS03

Date Collected: 07/19/22 12:13
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Lab Sample ID: 880-17105-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/22 09:20	07/20/22 16:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/22 09:20	07/20/22 16:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/22 09:20	07/20/22 16:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/22 09:20	07/20/22 16:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/22 09:20	07/20/22 16:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/22 09:20	07/20/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/20/22 09:20*	*07/20/22 16:19*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/20/22 09:20*	*07/20/22 16:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/21/22 09:56	1

Client Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Client Sample ID: SS03

Lab Sample ID: 880-17105-3
Matrix: Solid
Date Collected: 07/19/22 12:13
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Method: 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			07/21/22 11:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:48	1
Total TPH	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:48*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/20/22 10:19*	*07/20/22 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/22 21:45	1

Client Sample ID: SS04

Lab Sample ID: 880-17105-4
Matrix: Solid
Date Collected: 07/19/22 12:17
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 16:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/20/22 09:20	07/20/22 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 16:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/20/22 09:20	07/20/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/20/22 09:20*	*07/20/22 16:39*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/20/22 09:20*	*07/20/22 16:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/21/22 09:56	1

Method: 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			07/21/22 11:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 20:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 20:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 20:09	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Client Sample ID: SS04

Date Collected: 07/19/22 12:17
Date Received: 07/19/22 15:34
Sample Depth: 0.5'

Lab Sample ID: 880-17105-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		07/20/22 10:19	07/20/22 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*07/20/22 10:19*	*07/20/22 20:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/20/22 10:19*	*07/20/22 20:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.12**		5.04		mg/Kg			07/20/22 21:53	1

Surrogate Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-17105-1	SS01	98	75
880-17105-2	SS02	113	87
880-17105-3	SS03	107	94
880-17105-4	SS04	109	90
880-17129-A-1-D MS	Matrix Spike	98	96
880-17129-A-1-E MSD	Matrix Spike Duplicate	99	96
890-2568-A-10-E MS	Matrix Spike	102	96
890-2568-A-10-F MSD	Matrix Spike Duplicate	105	98
LCS 880-30102/1-A	Lab Control Sample	104	97
LCS 880-30115/1-A	Lab Control Sample	102	100
LCSD 880-30102/2-A	Lab Control Sample Dup	103	96
LCSD 880-30115/2-A	Lab Control Sample Dup	116	99
MB 880-30102/5-A	Method Blank	97	87
MB 880-30115/5-A	Method Blank	93	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-17104-A-1-C MS	Matrix Spike	120	100
880-17104-A-1-D MSD	Matrix Spike Duplicate	120	100
880-17105-1	SS01	123	112
880-17105-2	SS02	125	114
880-17105-3	SS03	127	117
880-17105-4	SS04	122	110
LCS 880-30104/2-A	Lab Control Sample	108	95
LCSD 880-30104/3-A	Lab Control Sample Dup	108	96
MB 880-30104/1-A	Method Blank	180 S1+	174 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30102/5-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30102

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/22 09:20	07/20/22 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 09:20	07/20/22 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/22 09:20	07/20/22 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/20/22 09:20*	*07/20/22 11:30*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/20/22 09:20*	*07/20/22 11:30*	*1*

Lab Sample ID: LCS 880-30102/1-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30102

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08524		mg/Kg		85	70 - 130		
Toluene			0.100	0.08386		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08935		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1789		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09910		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-30102/2-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30102

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08401		mg/Kg		84	70 - 130	1	35
Toluene			0.100	0.08428		mg/Kg		84	70 - 130	0	35
Ethylbenzene			0.100	0.08928		mg/Kg		89	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1786		mg/Kg		89	70 - 130	0	35
o-Xylene			0.100	0.09915		mg/Kg		99	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-30115/5-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30115

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/20/22 22:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/20/22 22:07	1

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

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

Lab Sample ID: MB 880-30115/5-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30115

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/20/22 22:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/22 11:27	07/20/22 22:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 11:27	07/20/22 22:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/22 11:27	07/20/22 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/20/22 11:27*	*07/20/22 22:07*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/20/22 11:27*	*07/20/22 22:07*	*1*

Lab Sample ID: LCS 880-30115/1-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30115

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1023		mg/Kg		102	70 - 130		
Toluene			0.100	0.09638		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09979		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.1979		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.1161		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-30115/2-A
Matrix: Solid
Analysis Batch: 30094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30115

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09481		mg/Kg		95	70 - 130	8	35
Toluene			0.100	0.09432		mg/Kg		94	70 - 130	2	35
Ethylbenzene			0.100	0.1010		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2018		mg/Kg		101	70 - 130	2	35
o-Xylene			0.100	0.1152		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-30104/1-A
Matrix: Solid
Analysis Batch: 30161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30104

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/20/22 10:19	07/20/22 15:46	1

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

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

Lab Sample ID: MB 880-30104/1-A
Matrix: Solid
Analysis Batch: 30161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30104

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/20/22 10:19	07/20/22 15:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/20/22 10:19	07/20/22 15:46	1
Total TPH	<50.0	U	50.0		mg/Kg		07/20/22 10:19	07/20/22 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*180*	*S1+*	*70 - 130*	*07/20/22 10:19*	*07/20/22 15:46*	*1*
o-Terphenyl	*174*	*S1+*	*70 - 130*	*07/20/22 10:19*	*07/20/22 15:46*	*1*

Lab Sample ID: LCS 880-30104/2-A
Matrix: Solid
Analysis Batch: 30161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1160		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1060		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-30104/3-A
Matrix: Solid
Analysis Batch: 30161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1283		mg/Kg		128	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1065		mg/Kg		107	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30086/1-A
Matrix: Solid
Analysis Batch: 30177

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/22 20:50	1

QC Sample Results

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-30086/2-A
Matrix: Solid
Analysis Batch: 30177

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-30086/3-A
Matrix: Solid
Analysis Batch: 30177

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	272.2		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-17105-1 MS
Matrix: Solid
Analysis Batch: 30177

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.03	U F1	252	285.0	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-17105-1 MSD
Matrix: Solid
Analysis Batch: 30177

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.03	U F1	252	285.4	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

GC VOA

Analysis Batch: 30094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	8021B	30115
880-17105-2	SS02	Total/NA	Solid	8021B	30115
880-17105-3	SS03	Total/NA	Solid	8021B	30102
880-17105-4	SS04	Total/NA	Solid	8021B	30102
MB 880-30102/5-A	Method Blank	Total/NA	Solid	8021B	30102
MB 880-30115/5-A	Method Blank	Total/NA	Solid	8021B	30115
LCS 880-30102/1-A	Lab Control Sample	Total/NA	Solid	8021B	30102
LCS 880-30115/1-A	Lab Control Sample	Total/NA	Solid	8021B	30115
LCSD 880-30102/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30102
LCSD 880-30115/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30115

Prep Batch: 30102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-3	SS03	Total/NA	Solid	5035	
880-17105-4	SS04	Total/NA	Solid	5035	
MB 880-30102/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30102/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30102/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 30115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	5035	
880-17105-2	SS02	Total/NA	Solid	5035	
MB 880-30115/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30115/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30115/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 30211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	Total BTEX	
880-17105-2	SS02	Total/NA	Solid	Total BTEX	
880-17105-3	SS03	Total/NA	Solid	Total BTEX	
880-17105-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 30104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	8015NM Prep	
880-17105-2	SS02	Total/NA	Solid	8015NM Prep	
880-17105-3	SS03	Total/NA	Solid	8015NM Prep	
880-17105-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-30104/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30104/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	8015B NM	30104
880-17105-2	SS02	Total/NA	Solid	8015B NM	30104
880-17105-3	SS03	Total/NA	Solid	8015B NM	30104

QC Association Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

GC Semi VOA (Continued)

Analysis Batch: 30161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-4	SS04	Total/NA	Solid	8015B NM	30104
MB 880-30104/1-A	Method Blank	Total/NA	Solid	8015B NM	30104
LCS 880-30104/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30104
LCSD 880-30104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30104

Analysis Batch: 30235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Total/NA	Solid	8015 NM	
880-17105-2	SS02	Total/NA	Solid	8015 NM	
880-17105-3	SS03	Total/NA	Solid	8015 NM	
880-17105-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 30086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Soluble	Solid	DI Leach	
880-17105-2	SS02	Soluble	Solid	DI Leach	
880-17105-3	SS03	Soluble	Solid	DI Leach	
880-17105-4	SS04	Soluble	Solid	DI Leach	
MB 880-30086/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30086/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30086/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17105-1 MS	SS01	Soluble	Solid	DI Leach	
880-17105-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 30177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17105-1	SS01	Soluble	Solid	300.0	30086
880-17105-2	SS02	Soluble	Solid	300.0	30086
880-17105-3	SS03	Soluble	Solid	300.0	30086
880-17105-4	SS04	Soluble	Solid	300.0	30086
MB 880-30086/1-A	Method Blank	Soluble	Solid	300.0	30086
LCS 880-30086/2-A	Lab Control Sample	Soluble	Solid	300.0	30086
LCSD 880-30086/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30086
880-17105-1 MS	SS01	Soluble	Solid	300.0	30086
880-17105-1 MSD	SS01	Soluble	Solid	300.0	30086

Lab Chronicle

Client: Ensolum
Job ID: 880-17105-1
Project/Site: Zia Hills 25E
SDG: NM

Client Sample ID: SS01
Lab Sample ID: 880-17105-1
Date Collected: 07/19/22 12:00
Matrix: Solid
Date Received: 07/19/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			30115	07/20/22 11:27	MR	XEN MID
Total/NA	Analysis	8021B		1	30094	07/21/22 05:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	30211	07/21/22 09:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1	30235	07/21/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			30104	07/20/22 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	30161	07/20/22 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			30086	07/19/22 19:05	SMC	XEN MID
Soluble	Analysis	300.0		1	30177	07/20/22 21:14	CH	XEN MID

Client Sample ID: SS02
Lab Sample ID: 880-17105-2
Date Collected: 07/19/22 12:07
Matrix: Solid
Date Received: 07/19/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			30115	07/20/22 11:27	MR	XEN MID
Total/NA	Analysis	8021B		1	30094	07/21/22 05:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	30211	07/21/22 09:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1	30235	07/21/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			30104	07/20/22 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	30161	07/20/22 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			30086	07/19/22 19:05	SMC	XEN MID
Soluble	Analysis	300.0		1	30177	07/20/22 21:37	CH	XEN MID

Client Sample ID: SS03
Lab Sample ID: 880-17105-3
Date Collected: 07/19/22 12:13
Matrix: Solid
Date Received: 07/19/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			30102	07/20/22 09:20	MR	XEN MID
Total/NA	Analysis	8021B		1	30094	07/20/22 16:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	30211	07/21/22 09:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1	30235	07/21/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			30104	07/20/22 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	30161	07/20/22 19:48	AJ	XEN MID
Soluble	Leach	DI Leach			30086	07/19/22 19:05	SMC	XEN MID
Soluble	Analysis	300.0		1	30177	07/20/22 21:45	CH	XEN MID

Client Sample ID: SS04
Lab Sample ID: 880-17105-4
Date Collected: 07/19/22 12:17
Matrix: Solid
Date Received: 07/19/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			30102	07/20/22 09:20	MR	XEN MID
Total/NA	Analysis	8021B		1	30094	07/20/22 16:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	30211	07/21/22 09:56	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Ensolum
Job ID: 880-17105-1
Project/Site: Zia Hills 25E
SDG: NM

Client Sample ID: SS04
Lab Sample ID: 880-17105-4
Date Collected: 07/19/22 12:17
Matrix: Solid
Date Received: 07/19/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	30235	07/21/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			30104	07/20/22 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	30161	07/20/22 20:09	AJ	XEN MID
Soluble	Leach	DI Leach			30086	07/19/22 19:05	SMC	XEN MID
Soluble	Analysis	300.0		1	30177	07/20/22 21:53	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-17105-1
Project/Site: Zia Hills 25E
SDG: NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum Job ID: 880-17105-1
Project/Site: Zia Hills 25E SDG: NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Zia Hills 25E

Job ID: 880-17105-1
SDG: NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-17105-1	SS01	Solid	07/19/22 12:00	07/19/22 15:34	0.5'
880-17105-2	SS02	Solid	07/19/22 12:07	07/19/22 15:34	0.5'
880-17105-3	SS03	Solid	07/19/22 12:13	07/19/22 15:34	0.5'
880-17105-4	SS04	Solid	07/19/22 12:17	07/19/22 15:34	0.5'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: 17105

www.xenco.com Page 1 of 1

Project Manager	KALEI JENNINGS	Bill to. (if different)	KALEI JENNINGS
Company Name	Ensolum, LLC	Company Name	ENSOLUM
Address:	601 N Marienfeld Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	817-683-2503 Email	KJENNINGS@ENSOLUM.COM	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other:

Project Name:	ZIA HILLS 25E	Turn Around	☐ Routine ☒ Rush
Project Number:	03D2024009	Due Date:	3 DAY
Project Location:	NM	TAT starts the day received by the lab, if received by 4.30pm	
Sampler's Name:	HADLE GREEN		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5	
Total Containers.		Corrected Temperature:	1.7	

ANALYSIS REQUEST

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015	BTEX 8021	CHLORIDES 300	Sample Comments
SS01	SL	7-19-22	12:00	0.5'	G	1		X	X	X	4 - 4oz
SS02	↓	↓	12:07	↓	↓	↓		↓	↓	↓	
SS03			12:13								
SS04			12:17								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu I Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn 1631 / 245 1 / 7470 / 7471

880-17105 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadle Green		7/19/22 15:34	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-17105-1
SDG Number: NM

Login Number: 17105
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Beauvais, Charles R
To: Kalei Jennings
Subject: FW: (Extension Request 1) Zia Hills 25E (NAPP2205439117) 02-09-2022
Date: Monday, May 9, 2022 1:15:55 PM
Attachments: image001.png

[**EXTERNAL EMAIL**]

FYI

From: Beauvais, Charles R
Sent: Monday, May 9, 2022 1:15 PM
To: 'EMNRD-OCD-District1spills' <EMNRD-OCD-District1spills@state.nm.us>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Cc: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: (Extension Request 1) Zia Hills 25E (NAPP2205439117) 02-09-2022

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 10, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at Zia Hills 25E (Incident Number NAPP2205439117). The release was discovered on February 9, 2022 and remediation activities completed last week. Laboratory analytical results are currently pending. In order to complete remediation activities and allow time to submit a remediation work plan or closure report COP requests a 90-day extension of this deadline until August 8, 2022.

Respectfully,

Charles R. Beauvais **II**
Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.

From: Hamlet, Robert, EMNRD
To: Kalei Jennings
Cc: Beauvais, Charles R; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 5/2/22 - 5/6/22)
Date: Friday, April 29, 2022 8:06:09 AM
Attachments: image005.jpg
image006.png
image007.png
image008.png
image009.png

[**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.

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

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, April 28, 2022 1:38 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: Fw: [EXTERNAL] COP - Sampling Notification (Week of 5/2/22 - 5/6/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, April 28, 2022 1:37 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 5/2/22 - 5/6/22)

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

All,

ConocoPhillips plans to complete final sampling activities at the following sites the week of May 2, 2022.

Monday:

Tuesday:

Wednesday:

- Pork Pie State Com 704H/ NAPP2204938905
- King Cobra 2 State 001H / NAPP2205234848

Thursday:

- Zia Hills 25E / NAPP2205439117

Friday:

Thank you,

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

ENSOLUM

APPENDIX E

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	NAPP2205439117
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439117
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 2/23/2022

L48 Spill Volume Estimate Form

NAPP2205439117

Facility Name:	Zia Hills 25 E
Asset Area:	DBE
Release Discovery Date & Time:	2/9/2022
Release Type:	Oil Mixture
Provide any known details about the event:	Maintaner hit 2" unmarked flowline from operator in the area.

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	12.0	1.0	3.00	12.60%	0.534	0.067	15.00%	0.010	0.057
Rectangle B	30.0	5.0	0.10	12.60%	0.223	0.028	15.00%	0.004	0.024
Rectangle C	12.0	7.0	3.00	12.60%	3.738	0.471	15.00%	0.071	0.400
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
					0.000	0.000		0.000	0.000
				Total Volume Release:	0.566			0.085	0.481

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: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 83618
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/23/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439117
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439117
District RP	
Facility ID	
Application ID	

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: __Charles Beauvais_____ Title: ___Senior Environmental Engineer_____

Signature:____Charles R. Beauvais II_____ Date: __08/08/2022_____

email: __Charles.R.Beauvais@conocophillips.com_____ Telephone: __575-988-2043_____

OCD Only

Received by: ___Jocelyn Harimon_____ Date: __08/09/2022____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439117
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais II Date: 08/08/2022

email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: Jocelyn Harimon Date: 08/09/2022

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

Closure Approved by: Jennifer Nobui Date: 08/15/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 132527

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 132527
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/15/2022