

CLOSURE REPORT

Property:

Federal 12-1H Battery

Eddy County, New Mexico 32.32150° N, 103.81203° W NMOCD Incident ID: nAB1700440047

December 13, 2023 Ensolum Project No. 03B1417058

Prepared for:

Oxy USA Inc. P.O. Box 4294 Houston, TX 77210 Attn: Mr. Wade Dittrich

Prepared by:

Beaux Jenhings Senior Project Manager

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Heather Holthaus Senior Project Manager

Ensolum, LLC | Environmental & Hydrogeologic Consultants 601 N. Marienfeld Street, Suite 400, Midland, Texas 79701 | Office: 972-364-7682



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1.0 INTRODUCTION

1.1 Executive Summary

- On December 16, 2016, a release of produced water was reported from a water transfer line due to a failure in the line at the Federal 12-1H Battery, hereinafter referred to as the "Site". Approximately 20 barrels (bbls) of produced water were released onto the ground surface with approximately 10 bbls recovered. The release impacted an area approximately 75 feet long by 175 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by BBC International Incorporated (BBC) on behalf of Oxy USA Inc. (Oxy), stated that the impacted area would be excavated to depths ranging from 3.5 to 5.5 feet below ground surface (bgs). A copy of the approved Remediation Work Plan is included in Appendix B.
- Excavation activities were conducted based on visual and laboratory evidence of impairment. Subsequent to completion of excavation activities, between September 12 and September 19, 2023, Ensolum arrived on-Site and collected a total of 48 composite soil samples from 48 locations on the excavation floor (FS-1 through FS-48), and 13 composite soil samples from 12 locations on the excavation sidewalls (SW-1 through SW-12). The composite floor samples were collected from depths ranging from 3 to 6 feet bgs, and the composite sidewall samples were collected from depths ranging from 0-3 feet bgs. In addition, Ensolum collected nine delineation soil samples from locations outside the release area (DS-1 through DS-9) at a depth of 0-0.25 feet bgs. Additionally, in accordance with the BBC Remediation Work Plan, a liner was placed in the vicinity of previously collected soil sample location SP1, inside the excavation, prior to backfilling.
- Based on the laboratory analytical results of the final soil samples, no additional excavation was required.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- Based on the laboratory analytical results, the final composite and delineation soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Once the area was brought back to original grade, a Bureau of Land Management (BLM) approved seed mixture was sown into the surface area of the backfill for re-vegetation.

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Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Federal 12-1H Battery
Location:	32. 32150 N, 103.81203 W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 **Project Objective**

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.



- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the Bureau of Land Management (BLM), the Site is not located within an unstable area.
- The Site is noted to be located within an area of minimal flood hazard.
- A search of the OSE WRSS database was conducted for water wells within 0.5-mile radius of the Site in order to determine the depth to groundwater in the vicinity of the Site. C-02492-POD2 was identified approximately 1,050 feet north of the Site, with a recorded depth to groundwater of 125 feet bgs (C-02492-POD2). The search also identified information on several historical USGS wells within 500 feet of the Site (321918103484301, 321918103484302, and 321913103483701), dating back to 1959. These wells were plugged and abandoned in the mid 1980's to early 1990s.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

	Closure Criteria fe	or Soils Impacted by a Rel	ease
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
. 100 ()	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
>100 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On December 16, 2016, a release of produced water was reported from a water transfer line due to a failure in the line at the Federal 12-1H Battery. Approximately 20 bbls of produced water were released onto the ground surface with approximately 10 bbls recovered. The release impacted an area approximately 75 feet long by 175 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by BBC on behalf of Oxy, stated that the impacted area would be excavated to depths ranging from 3.5 to 5.5 feet bgs, and was approved by the NMOCD on February 7, 2017, and the BLM on February 14, 2017. A copy of the approved Remediation Work Plan is included in **Appendix B**.

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Excavation activities were conducted based on visual and laboratory evidence of impairment. Subsequent to completion of excavation activities, between September 12 and September 19, 2023, Ensolum arrived on-Site and collected a total of 48 composite soil samples from 48 locations on the excavation floor (FS-1 through FS-48), and 13 composite soil samples from 12 locations on the excavation sidewalls (SW-1 through SW-12). The composite floor samples were collected from depths ranging from 3 to 6 feet bgs, and the composite sidewall samples were collected from depths ranging from 0-3 feet bgs. In addition, Ensolum collected nine delineation soil samples from locations outside the release area (DS-1 through DS-9) at a depth of 0-0.25 feet bgs. Additionally, in accordance with the BBC Remediation Work Plan, a liner was placed in the vicinity of previously collected soil sample location SP1, inside the excavation, prior to backfilling.

Based on the laboratory analytical results of the final soil samples, no additional excavation was required.

The lithology encountered during the completion of sampling activities consisted primarily of a pink and yellow silty sand.

Figure 3 identifies approximate pothole soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of 48 composite soil samples from 48 locations on the excavation floor (FS-1 through FS-48), and 13 composite soil samples from 12 locations on the excavation sidewalls (SW-1 through SW-12). The composite floor samples were collected from depths ranging from 3 to 6 feet bgs, and the composite sidewall samples were collected from depths ranging from 0-3 feet bgs. In addition, Ensolum collected nine delineation soil samples from locations outside the release area (DS-1 through DS-9) at a depth of 0-0.25 feet bgs. In addition, a liner was placed in the vicinity of SP1 inside the excavation.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite and delineation soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-CI B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO, and chloride concentrations associated with the final composite soil samples collected from the excavation floor (FS-1 through FS-48), the excavation sidewalls (SW-1 through SW-12), and the delineation soil samples collected from locations outside the release area (DS-1 through DS-9) to the applicable NMOCD Closure Criteria.

• Laboratory analytical results indicate benzene concentrations for the composite and delineation soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).

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- Laboratory analytical results indicate that total BTEX concentrations for the composite and delineation soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the composite and delineation soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 1,000 mg/kg for groundwater at >100 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite and delineation soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 2,500 mg/kg for groundwater at >100 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite and delineation soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for groundwater at >100 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Once the area was brought back to original grade, a BLM approved seed mixture was sown into the surface area of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- On December 16, 2016, a release of produced water was reported from a water transfer line due to a failure in the line at the Federal 12-1H Battery. Approximately 20 bbls of produced water were released onto the ground surface with approximately 10 bbls recovered. The release impacted an area approximately 75 feet long by 175 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by BBC on behalf of Oxy, stated that the impacted area would be excavated to depths ranging from 3.5 to 5.5 feet bgs. A copy of the approved Remediation Work Plan is included in Appendix B.
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- Based on the laboratory analytical data of the final soil samples, no additional excavation was required.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release using the NMAC 19.15.29 *Releases* as guidance.



- Based on the laboratory analytical results, the final composite and delineation soil samples collected from the excavation did not exhibit benzene, BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were
 removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill
 material, and then contoured to the original surrounding grade. Once the area was brought back to
 original grade, a BLM approved seed mixture was sown into the surface area of the backfill for revegetation.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

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APPENDIX B

Supporting Documentation

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Was a Watercour If a Watercourse Describe Cause of A ruptured water repaired, Describe Area Al The affected area NMOCD and the I hereby certify th regulations all op public health or the should their opera- federal, state, or for Signature: Printed Name: Title: NM Env E-mail Address:	rse Reached? was Impacted, D of Problem and R r transfer line leaf ffected and Clear a is approximately BLM. hat the information perators are require the environment. rations have failed ent. In addition, f locpl laws, and/or Casey Summers vironmental Advi	Yes 2 cscribe Fully emedial Action and 20 bbls of up Action Ta (175' x 75' c on given above red to report a The acceptant to adequated MOCD acceptant to adequated to add to add tod	* on Taken.* produced water ken.* off location in the re is true and com and/or file certain ice of a C-141 re y investigate and plance of a C-14	pasture. polete to the release n port by the remediat 1 report d	Date and H If YES, Vo asture. A vac Remediation he best of my otifications a c NMOCD n e contaminat oes not reliev Approved by Approval Da	Hour 12/16/201 olume Impacting olume Impacting cuum truck recov a will be complete a will be complete y knowledge and and perform corre narked as "Final Filter ion that pose a th ye the operator of OIL CON y Environmental Ste: ate: 14/17	the Watero ered 10 bb d in accord anderstand ctive actio Report" do reat to grov responsib SERVA Specialist: Est	dance with that purse. dance with that purse ns for relies not relies not relies und water itity for control ATION	th a plan approve suant to NMOCI leases which may leve the operator, r, surface water, compliance with DIVISION AUCION DIVISION DIVISION	ed by both D rules and y endanger r of liability human health any other W

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Operator/Responsible Party,

The OCD has received the form C-141 you provided on 12/29/16 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 28P-4053 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/3/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From:	Kathy Purvis <kathy@bbcinternational.com></kathy@bbcinternational.com>
Sent:	Thursday, December 29, 2016 9:56 AM
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc:	Casey_Summers@oxy.com;
Subject:	Initial C-141, Federal 12-1H Battery
Attachments:	Initial C-141, Federal 12-1H Battery.pdf

Attached is the initial C-141 for a leak that occurred at the Federal 12-1H Battery on 12/16/2016 in Eddy County, NM. Receipt notification and the RP number via email are greatly appreciated.

Kathy Purvis

BBC International, Inc. 1324 W. Marland Blvd. Hobbs, NM 88240 Business: (575) 397-6388 Cell: (575) 441-8619 *kathy@bbcinternational.com*



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

Oxy – Federal 12-1H Battery (12/16/2016)

REMEDIATION PLAN, RP # 2RP-4053

Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 3.5 feet, except in the area of SP5, which will be excavated to a depth of 5.5 feet and, in the area of SP1, which will be excavated to a depth of 4 feet and a liner will be placed in the excavation. The entire site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Released to Imaging: 12/26/2023 11:37:05 AM



Groundwater Plot

Oxy Federal 12-1H Battery



Location Released to Imaging: 12/26/2023 11:37:05 AM



Section Quarters

Oxy Federal 12-1H Battery



Laboratory Analytical Results Summary Federal 12-1H Battery

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 9'	SP1 @ 10'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4800	6560	17400	3840	816	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		11.2	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2640	5280	448	16	32

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		5040	2000	688	<16.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4320	2360	<16.0

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4160	16000	10100	80	96
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		14000	34000	400	48

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		15200	31200	432	48

		Sample	SP8 @ 1'	SP8 @ 3'	SP8 @ 5'	SP8 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		384	17200	208	32

		Sample	SP9 @ 1'	P9 @ 1' SP9 @ 3' SP9 @ 5'		SP9 @ 6'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 802	1B	< 0.050	n/a	n/a	n/a
Ethylbenz	BTEX 802	1B	< 0.050	n/a	n/a	n/a
Total Xyle	BTEX 8027	1B	<0.150	n/a	n/a	n/a
Total BTE	BTEX 802'	1B	< 0.300	n/a	n/a	n/a
Chloride	SM4500CI	·В	14400	4400	208	32
GRO	TPH 8015	N	<10.0	n/a	n/a	n/a
DRO	TPH 8015	N	<10.0	n/a	n/a	n/a

		Sample	NORTH @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500CI-B		112

		Sample	EAST @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500CI	·В	80

		Sample	WEST @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500CI-	·B	64

		Sample	SOUTH @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500CI-	·В	96



February 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 - 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/26/17 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700202-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	01/30/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	11.2	10.0	01/28/2017	ND	208	104	200	2.56	
Surrogate: 1-Chlorooctane	85.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	94.1	% 28-171	,						

Sample ID: SP 1 @ 3' (H700202-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	01/30/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 5' (H700202-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	01/30/2017	ND	432	108	400	3.64	

Sample ID: SP 1 @ 8' (H700202-04)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	01/30/2017	ND	432	108	400	3.64	

Sample ID: SP 1 @ 9' (H700202-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/30/2017	ND	432	108	400	3.64	

Sample ID: SP 1 @ 10' (H700202-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 2 @ 1' (H700202-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	01/31/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 3' (H700202-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 2 @ 4' (H700202-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 2 @ 5' (H700202-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 2 @ 6' (H700202-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 3 @ 1' (H700202-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	01/31/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H700202-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 3 @ 4' (H700202-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 3 @ 5' (H700202-15)

Chloride, SM4500Cl-B	M4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 4 @ 1' (H700202-16)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/31/2017	ND	432	108	400	3.64	

Sample ID: SP 4 @ 3' (H700202-17)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	01/31/2017	ND	432	108	400	3.64	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 4' (H700202-18)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	3.64		

Sample ID: SP 5 @ 1' (H700202-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	01/31/2017	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyzed By: MS						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	
Surrogate: 1-Chlorooctane	92.5	% 35-147							
Surrogate: 1-Chlorooctadecane	83.4	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 3' (H700202-20)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			zed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 5 @ 5' (H700202-21)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 5 @ 6' (H700202-22)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/31/2017	ND	432	108	400	0.00		

Sample ID: SP 5 @ 7' (H700202-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 6 @ 1' (H700202-24)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	01/31/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 3' (H700202-25)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 6 @ 5' (H700202-26)

Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 6 @ 6' (H700202-27)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 7 @ 1' (H700202-28)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 7 @ 3' (H700202-29)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31200	16.0	02/01/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 7 @ 5' (H700202-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 7 @ 6' (H700202-31)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 8 @ 1' (H700202-32)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 8 @ 3' (H700202-33)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 8 @ 5' (H700202-34)

Chloride, SM4500Cl-B	mg	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 8 @ 6' (H700202-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 1' (H700202-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

						,	-		-
Chloride	14400	16.0	02/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	
Surrogate: 1-Chlorooctane	96.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	105	% 28-171	1						

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 9 @ 3' (H700202-37)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 5' (H700202-38)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 6' (H700202-39)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: NORTH SAMPLE @ 1' (H700202-40)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: EAST SAMPLE @ 1' (H700202-41)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/31/2017	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: WEST SAMPLE @ 1' (H700202-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SOUTH SAMPLE @ 1' (H700202-43)

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager
Released to Imaging: 12/26/2023 11:37:05 AM

Received by	OCD:	12/19/2023	11:55:35 AM
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		BILL TO	ANALYSIS REQUEST
	P.	P.O. #:	-
Address: P.O. Box 805	Co	Company: OKU	
city: Hobbs State: NM	zip: 88241 At	ATTA: (DSUGENNUS	
Phone #: 575-397-6388 Fax #: 575-3	575-397-0397 Ad	ess: J	
Project #: Project Owner: Oxy		City:	
Project Name: FEDERAL 12-1H BATTERY		State: Zip:	
Project Location: LEA COUNTY, NM	P	ŧ	
Sampler Name: JEFF ORNELAS			
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	RS TER ER		<
Lab I.D. Sample I.D.	G)RAB OR (CONTAINE GROUNDWA WASTEWATI SOIL DIL SLUDGE DTHER :	ACID/BASE: CE / COOL DTHER : DATE	CI TPH BTE
1 SP1@1'		V 1/23/17 9:	
SP1 @ 3'	51 1	_	
	51 1	-	
SP1 @ 8'	61 1		
	6- 1	V 1/23/17 11:00 AM	~
	6	V 1/23/17 11:11 AM	<
SP2 @ 1		V 1/23/17 11:22 AM	~
	• •	 1/23/17 11:45 AM 	×
SP2 @ 4		V 1/23/17 11:57 AM	<
PLEASE NOTE: Liability and Damages. Cardinal's liability and resource and since and si			
including those for more meaning and create security enclosive rein including those for incidental and any other cause whateboxer shall Cardinal be liable for incidental or consequential damages, is arising out of or related to the performance of services herein	server removity for any crains anong whethere based in contract or fort, shall be limited to the amount paid by absorver shall be determed waived unless made in writing and received by Cardinal within 30 days after contract amages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client is hereinger by Cardinal, insportees of whether such claim is based inton any of the above stated enserver is hereinger by Cardinal, insportees of whether such claim is based inton any of the above stated enserver	urely for any cent artsing wrether based in contract or toxt shall be limited to the amount paid by the client for the shall be deemed waived unless made in writing and received by Candhal within 30 days after completion of the applicable including without limitation, business interruptions of use, or loss of profits incurred by client, its subsidiaries, doit by Cardhal, repartiess of wrether such claim is beaut inon any of the above attend association content in doit by Cardhal, repartiess of wrether such claim is beaut inon any of the above attend association content in the such claim is beaut inon any of the above attend association and the such claim is beaut inon any of the above attend association and the above attend association and the above attend association and the above attend association attend association and the above attend association attend association and the above attend association attended association a	he applicable ss,
Miles There Is	Received By:	Phone Result: Fax Result: REMARKS:	ult: Yes No Add'I Phone #: : Yes No Add'I Fax #: :
Time: S : 00	Kegelvegray:	6	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: ~< 9	Ves Types	(Initials)	

Page 37 of 147

Page 14 of 18

IRDINAL LABORATORIES 505) 393-2326 FAX (505) 393-2476 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 18

Relinquished Relinquished LEASE NOTE: HTOOKU' Project Location: Project Name: FEDERAL 12-1H BATTERY Phone #: 575-397-6388 Sampler Name: city: Hobbs Project #: Project Manager: Cliff Brunson alyses. All claims Address: P.O. Box 805 Company Name: BBC International, FOR LAB USE ONLY ce. In no Lab I.D. i even S A 5 C5 SP5 @ 3' SP5 @ 1' SP4 @ 4' SP4 @ 3' SP4 @ 1' SP3 @ 5' SP2 SP3 @ 4" SP3 @ 3' SP3 @ 1 LEA COUNTY, NM JEFF ORNELAS 00 Sample I.D. Project Owner: Oxy Fax #: State: NM Inc. 575-397-0397 Received By: DODOOOOOO (G)RAB OR (C)OMP Zip: Received By # CONTAINERS 88241 GROUNDWATER WASTEWATER < < MATRIX < ۲ SOIL writing and rec OIL SLUDGE loss of use, or loss of profits OTHER State: Attn: P.O. #: Fax #: Phone #: City: Company: Address: ACID/BASE PRESERV L u ICE / COOL R OTHER : BILL TO 1/23/17 1/23/17 1/23/17 1/23/17 1/23/17 1/23/17 Zip 1/23/17 1/23/17 1/23/17 1/23/17 DATE Skep no SAMPLING LEWING! ane by client, its 2:10 PM Fax Result: REMARKS: 3:12 PM 2:30 PM 1:42 PM 2:49 PM 1:45 PM 1:50 PM by the die 1:20 PM Phone Result: 1:33 PM 12:50 PM TIME idiaries of the ap < < < cable < Yes Yes < No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

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

Ves Ves

No

ple Condition

CHECKED BY:

Delivered By: (Circle One

Received by OCD: 12/19/2023 11:55:35 AM

Company Name: BBC International, Inc.	BBC International, Inc.		BILL TO		ANALYSIS REQUEST
Project Manager: C	Cliff Brunson		P.O. #:		
Address: P.O. Box	Box 805		Company:		
city: Hobbs	State: NM	Zip: 88241	E.	S/MWW/	
Phone #: 575-397-6388	Fax #:	575-397-0397	ss: J		
Project #:	Project Owner: Oxy	ler: Oxy	City:		
Project Name: FEDE	FEDERAL 12-1H BATTERY		State: Zip:		
Project Location: Lf	LEA COUNTY, NM		#		
Sampler Name: JE	JEFF ORNELAS		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	DTHER : ACID/BASE: CE / COOL DTHER : DATE	TIME C(
21 SP5	SP5 @ 5'		2	3:33 PM 🗸	
27 SP5	0 6'	61 1	/ 1/24/17	8:30 AM	
75 SP5	5@7'	GI V	V 1/24/17	8:33 AM	
24 SP6	SP6 @ 1'	61 1	V 1/24/17	9:15 AM	
5 SP6	3@3'	6- ~	V 1/24/17	9:32 AM	
SP6	@ 5'	61 1	V 1/24/17	10:15 AM 🖌	
N SP6	SP6 @ 6'	5- 2	1/24/17	10:33 AM 🖌	
76 SP7 @	@1	51 1	1/24/17	11:00 AM	
SP7	SP7 @ 3'	5- 1	× 1/24/17	11:30 AM	
Ø	@ 5'	6- 1	V 1/24/17	11:55 AM	
VLEASE NOTE: Lability and Damages. Cardinats liability analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for incidential particulates or successors arising out of or related to the peri utilizates or successors arising out of or related to the peri- particulation.	ly and client's exclusive ren ny other cause whatsoever or consequental damages, ormance of services hereu	sedy for any claim arising whether based in contract shall be deemed waived unless made in writing and including without limitation, business interruptions, to inder by Cardinal, regardless of whether such claim is nder by Cardinal.	I or fort, shall be limited to the amount pa d received by Cardinal within 30 days aft loss of use, or loss of profits incurred by is based upon any of the above stated re	paid by the client for the after completion of the applicable ay client, its subsidiaries, reasons or otherwise	
Relinquished By: Relinquished By: Delivered By: (Chr Samoler - LIPS - Rus	Date: ISY Date Date Date	Receive	on CHECKED BY:	Phone Result: Fax Result: REMARKS:] Yes □ No Add' Phone #:] Yes □ No Add' Fax #:
	s - Other: $-S.9$	7 C Cody Intact P C Pres Pres No No	all the	7	
† Cardinal canno	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476				

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Page 39 of 147

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 18

<u>Released to Imaging: 12/26/2023 11:37:05 AM</u>

Received by OC	D: 12/19/2023	11:55:35 AM
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Company Name:	1.00	Inc.	BILL TO			ANALYSIS REQUEST
Project Manager:	: Cliff Brunson		P.O. #:		_	
0	Box 805		Company: NG			
city: Hobbs		State: NM Zip: 88241	Sec.	in man of S	_	
Phone #: 575-397-6388		Fax #: 575-397-0397	ess:			
Project #:	P	Project Owner: Oxy	City:			
roject Name: F	Project Name: FEDERAL 12-1H BATTERY	TERY	State: Zip:			
Project Location:	: LEA COUNTY, NM		#			
Sampler Name:	JEFF ORNELAS		Fax #:			
FOR LAB USE ONLY		S ER	IX PRESERV SAMPLING	NG		
Lab I.D. H760202	Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: CE / COOL OTHER :	TIME C I	TPH BTEX	
5	SP7 @ 6'	~	V 1/24/17	12:07 PM		
32	SP8 @ 1'	61 1	_	1:11 PM /		
38	SP8 @ 3'	5-	V 1/24/17	1:40 PM		
E CAR	SP8 @ 5'	5	V 1/24/17	1:55 PM		
B	SP8 @ 6	5	J 1/24/17	2:00 PM		
06	SP9 @ 1'	51	× 1/24/17	2:22 PM	< <	
Par la	SP9 @ 3"	V 10	- 1/24/17	2:48 PM		
ec.	SP9 @ 5	2 1	V 1/24/17 3	3:10 PM 🖌		
H	SP9 @ 6'	21 1	J 1/24/17 3	3:25 PM 🖌		
PLEASE NOTE: Liability and I	NORTH SAMPLE @	1' 611 1	1/24/17 3	3:30 PM 🖌		
analyses. All claims including to service. In no event shall Card iffiliates or successors arising	anyses. All claims including those for negligence and any other cause v noice. In no event shall Cardinal be liable for incidental or consequenta finites or successors arising out of or related to the performance of sen liables.	on your compose C-animals a warmy and creats exclusive remedy for any claim arising whole based in contract or text, shall be limited to the amount paid by the client for the including those for negligence and any other cause whatsover shall be demended waived unless made in writing and necesived by Cardinal within 30 days after competition of the applicable shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, toos of use, or loss of profits incurred by client, its subsidiaries, the ansate of the shall be liable for incidental or consequential damages, including without limitation, business interruptions, toos of use, or loss of profits incurred by client, its subsidiaries, the statistical out of or related to the performance of services, hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	needy for any claim arising whether based in contract or kort, shall be limited to the amount paid by the client for the shall be deemed varived unless made in writing and neowied by Cardinal within 30 days after complexitor of the a including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries rafer by Cardinal, regardless of whether such claim is based upon any of the above stated nessons or ofhomvias.	by the client for the completion of the applicab ant, its subsidiaries, ons or otherwise.	a	
Relinquished By:	Was m	Neceived By:	2	Phone Result: Fax Result: REMARKS:	□Yes □No □Yes □No	Add'l Phone #: Add'l Fax #:
A D.		me: 5 00 (1 C)	and			
Delivered By: 1	(Circle One)	10	Condition CHECKED BY:			
Sampler - UPS -	Bus - Other:	S.S. Dres Dres	Yes (Initials) #	3		

RDINAL LABORATORIES (505) 393-2326 FAX (505) 393-2476 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 18

Relinquished B Relinquish LEASE NOTE: Liability and Da LOC90LH Sampler Name: Project Location: Project Name: FEDERAL 12-1H BATTERY Phone #: 575-397-6388 city: Hobbs Address: P.O. Box 805 Project Manager: Cliff Brunson Company Name: BBC International, Inc Project #: FOR LAB USE ONLY ice. In no Lab I.D. All claims 5 42 uding those to SOUTH SAMPLE @ 1' WEST SAMPLE @ 1' EAST SAMPLE @ 1' LEA COUNTY, NM JEFF ORNELAS g Sample I.D. and any Project Owner: Oxy Fax #: State: NM 36 575-397-0397 Zip: 88241 OO (G)RAB OR (C)OMP Received By: # CONTAINERS ved By GROUNDWATER WASTEWATER nade in v < < (SOIL MATRIX OIL SLUDGE loss of use, or loss of profits incurred OTHER P.O. #: State: City: Attn: Fax #: Phone #: Address Company: ved by ACID/BASE: PRESERV ICE / COOL Cardinal within ۲ C ٢ OTHER : BILL TO 1/24/17 Zip 1/24/17 1/24/17 30 days a DATE SAMPLING munul I by client, its subsidiaries, aller paid by the client for the Phone Result: Fax Result: REMARKS: 3:40 PM 3:45 PM 3:33 PM TIME etion of the ap CI < < Cable Yes I I No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

+

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

2

No

Condition

ECKED BY:

Delivered By:

(Circle One)

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 8750

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	ncis Dr., Santa	a Fe, NM 87503	5			Fe, NM 875						
			Rele				orrective A	ction				
Name of Co Address		Oxy Permia 294; Houstor	n Ltd.			OPERA'	FOR Casey Summers			al Report		Final Report
Facility Nat		ral 12-1H B		.10		Facility Typ		1-0209	_			
Surface Ow	ner BLN	1		Mineral C)wner				API No	. 30-015-	40840	
				TOC		N OF RE	FASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/W	Vest Line	County		
н	7	235	31E							Eddy Cou	nty, NN	4
	.I			Latitude <u>N 32.3</u>	21509	> Longitu	de <u>W 103.8120</u>	120		Ludy cou		
			· · · ·					<u>,</u> ,				
Type of Rele	ase Produ	uced water		INA I	URF	COF REL	Release 20 bbls		Volume F	Recovered	10 bbl:	5
Source of Re	elease Ru	ptured water t	ransfer lin	e		Date and H 12/16/2010	lour of Occurrenc	ce		Hour of Dis		
Was Immedi	ate Notice C		Yes 🗌] No 🔲 Not R	equired	If YES, To	Whom? ther, Heather Patt	terson, C	rystal Wea	ver- NMOC	CD;	
		BC Internatio	nal, Inc.			Date and I	lour 12/16/201					
Was a Water	course Read		Yes 🛛	No		If YES, Vo	olume Impacting t	the Wate	rcourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.			1						
		em and Reme r line leaked 2			nto the	pasture. A vac	cuum truck recove	ered 10 t	obls of proc	duced water	and the	e line was
Describe Are	ea Affected	and Cleanup	Action Tal	(en.*								
The affected NMOCD and		oximately 17	5" x 75' ol	ff location in the p	oasture	. Remediation	will be completed	d in acco	ordance wit	h a plan app	proved	by both
regulations a public health should their or the enviro	Il operators or the envi operations h ment. In a	are required t ronment. The nave failed to a	o report an acceptance adequately OCD accept	nd/or file certain i ce of a C-141 rep / investigate and i	release ort by t remedia	notifications a he NMOCD m ate contaminat	knowledge and u nd perform correc arked as "Final R ion that pose a thr ie the operator of	ctive acti Report" d reat to gr	ons for rele oes not reli ound water	eases which ieve the ope r, surface wa	may er rator of ater, hu	ndanger Fliability man health
	1-	A	_		1		OIL CON	SERV	ATION	DIVISIO	<u>NN</u>	
Signature:	لير)	<u> </u>			1							
Printed Nam	e: Casey	Summers				Approved by	Environmental S	Specialist	•			
		ntal Advisor				Approval Da	te:	I	Expiration	Date:		
									Transa			
E-mail Addr	<u>ess: Case</u> 2-29-	<u>v_Summers@</u>		(ERE) 210 04	200	Conditions o	I Approval:			Attached		
	_	ets If Necess	Phone ary	: (575) 513-82	289					1		
			-									

From:	Bratcher, Mike, EMNRD
To:	<u>Cliff Brunson</u>
Cc:	<u>Weaver, Crystal, EMNRD; Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis;</u> Tucker, Shelly
Subject: Date:	RE: OXY - Federal 12-1H Battery (2RP-4053) - Remediation Plan Wednesday, February 15, 2017 1:40:11 PM

RE: Occidental Permian * Fed 12-1H Battery * 2RP-4053 * DOR: 12/16/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites require BLM approval.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, February 7, 2017 3:17 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Casey Summers
<Casey_Summers@oxy.com>; Jennifer Hudgens <jennifer_hudgens@oxy.com>; Ken Swinney
<kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis
<kathy@bbcinternational.com>
Subject: OXY - Federal 12-1H Battery (2RP-4053) - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Federal 12-1H Battery release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From:	Tucker, Shelly
То:	Cliff Brunson
Cc:	Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	Re: OXY - Federal 12-1H Battery - Remediation Plan
Date:	Tuesday, February 14, 2017 2:46:53 PM

BLM concurs with the NMOCD approval.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Tue, Feb 7, 2017 at 3:29 PM, Cliff Brunson < <u>cbrunson@bbcinternational.com</u>> wrote:

Shelly,

I have attached a remediation plan for the OXY Federal 12-1H Battery release. This plan has been approved by Mike Bratcher of the NMOCD. OXY is requesting the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if

you would respond via email with the BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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

			· •			=NE 3=SW		QUE		
ll Tag	POD	Number				t to largest) c Tws		(NAD8	3 UTM in meters) X Y	
8		2492 POD	E C	-	2 0		31E	6117	67 3576996	.
iller Lic	ense:	1509	Drill	er Con	ipany:	BM	S DRII	LING	COMPANY	
iller Na			L, JOE D. (LD)		-p j -	5	5 5 1 112			
				F •••		0.0	- /21/20/	10		
ill Start		05/14/20		Finish		05	5/31/201	12	Plug Date:	<u></u>
g File D		08/27/20		Rev I					Source:	Shallow
mp Typ			-		rge Siz				Estimated Yie	
sing Siz	æ:	6.00	Dept	h Well	•	40	00 feet		Depth Water:	125 feet
	Mete	er Number	r: 16563			Meter I	Make:		MASTERME	TER
	Mete	er Serial N	umber: 53527	168		Meter I	Multipl	ier:	1.0000	
	Num	ber of Dia	als: 9			Meter 7	Гуре:		Diversion	
	Unit	of Measu	re: Gallon	s		Return	Flow P	Percent:		
	Usag	e Multipl	ier:			Reading	g Freqı	uency:		
Meter	X	gs (in Acr	··e-Feet)							
	d Date	Year	Mtr Reading	Flag	Rdr	Comme	ent		N	Itr Amount Onlir
01/0	1/2015	2015	39508400	A	RPT					0
04/0	1/2015	2015	47638000	А	RPT					24.949
04/3	0/2015	2015	51651000	А	RPT					12.315
05/3	1/2015	2015	56066600	А	RPT					13.551
07/0	1/2015	2015	58740300	А	RPT					8.205
08/0	1/2015	2015	62357200	А	RPT					11.100
08/3	1/2015	2015	66100700	А	RPT					11.488
10/0	1/2015	2015	69225500	А	RPT					9.590
12/0	1/2015	2015	76310300	А	RPT					21.742
01/0	1/2016	2016	76310300	А	RPT					0
02/0	1/2016	2016	76310300	А	RPT					0
	2/2016	2016	78841100	А	RPT					7.767
	1/2016	2016	80952800	А	RPT					6.481
	1/2016	2016	82055300	А	RPT					3.383
	1/2016	2016	85605600	А	RPT					10.895
	1/2016	2016	88115890	A	RPT					7.704
	2/2016	2016	22996000	A	RPT					0
	1/2016	2016	23851600	A	RPT					2.626
	1/2016	2016	29486000	A	RPT					17.291
	1/2016	2016	29738900	A	RPT					0.776
	1/2016	2016	29738900	A	RPT					0
12/3	1/2016	2016	29738900	A	RPT					0
**Y	TD Me	ter Amou	nts: Year	A	Amount	;				
			2015		112.940	1				

56.923

2016

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

12/7/23 9:37 AM

POINT OF DIVERSION SUMMARY

Beaux Jennings

From:	Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov></scott.rodgers@emnrd.nm.gov>
Sent:	Monday, September 18, 2023 2:36 PM
То:	Beaux Jennings
Cc:	Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Federal 12-1H Battery (RP No. 2RP-4053)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling, it is required to provide and date and time for each location. 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.

Scott Rodgers • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd_



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Monday, September 18, 2023 12:44 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Federal 12-1H Battery (RP No. 2RP-4053)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Federal 12-1H Battery (RP No. 2RP-4053) the week of September 18, 2023. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Received by OCD: 12/19/2023 11:55:35 AM

•



APPENDIX C

Photographic Documentation



View of initial spill, facing southeast.



View of initial excavation activities, facing northwest.



View of initial excavation activities, facing northwest.



View of initial excavation activities, facing northeast.



APPENDIX D

Table

				sc	DIL SAMPLE AN Fedeeral Oxy Eddy Cour	ABLE 1 NALYTICAL R 12-1H Battery USA Inc. Nty, New Mexic ect No. 03B141	o				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	Conservation I Soils Impacted ((> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
					Floor Sample	Analytical Resu	lts				
FS-1	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-2	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	192
FS-3	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-4	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-5	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-6	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-7	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-8	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-9	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-10	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-11	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-12	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-13	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-14	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-15	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-16	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-17	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-18	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-19	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-20	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-21	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-22	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-23	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-24	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-25	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-26	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
FS-27	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
FS-28	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-29	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-30	9/12/2023	3	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	48.0

Received by OCD: 12/19/2023 11:55:35 AM

					Oxy Eddy Cou	NALTIICAL 12-1H Battery VUSA Inc. nty, New Mexi ject No. 03B14	(со				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	Conservation I Soils Impacted I (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
FS-31	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	320
FS-32	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-33	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
FS-34	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-35	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-36	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-37	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-38	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-39	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-40	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-41	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-42	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-43	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	304
FS-44	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-45	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-46	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-47	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
FS-48	9/12/2023	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,200
					Side wall Samp	ole Analytical Re	sults				, ·
SW-1	9/12/2023	0 - 3	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	464
SW-2	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
SW-3	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
SW-4	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
0.11 5	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	656
SW-5	9/19/2023	0 - 3	<u></u>	••••••••••••••••••••••••••••••	NS				NS	<u>-</u>	288
SW-6	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
SW-7	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
SW-8	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
SW-9	9/12/2023	0 - 6	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	112
SW-10	9/12/2023	0 - 6	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	32.0
SW-11	9/12/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	224
SW-12	9/12/2023	0 - 3	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	32.0

E N S O L U M

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Received by OCD: 12/19/2023 11:55:35 AM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Fedeeral 12-1H Battery Oxy USA Inc. Eddy County, New Mexico Ensolum Project No. 03B1417058											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Criteria for S	Conservation I Soils Impacted I (> 100 feet)		10	NE	NE	NE	50	1,000	NE	2,500	20,000
					Delineation Sam	ple Analytical Re	sults				
DS-1	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
DS-2	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
DS-3	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
DS-4	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
DS-5	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
DS-6	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
DS-7	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
DS-8	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
DS-9	9/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0

Over Ecavated and/or Re-Sampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets & Chain-of-Custody Documentation



September 14, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: FEDERAL 12 - 1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 14:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 1 3' (H234928-01)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 2 3' (H234928-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 3 3' (H234928-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 4 3' (H234928-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 5 3' (H234928-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 6 3' (H234928-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/12/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 7 3' (H234928-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 8 3' (H234928-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 9 3' (H234928-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 10 3' (H234928-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 11 3' (H234928-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
11212022		Coursel's a Data

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 12 3' (H234928-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 13 3' (H234928-13)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 14 3' (H234928-14)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 15 3' (H234928-15)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 16 3' (H234928-16)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 17 3' (H234928-17)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	201	100	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	106	200	0.345	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
0/12/2022		Compling Dates

Sampling Date.	09/12/2023
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Shalyn Rodriguez
	Sampling Condition:

Sample ID: FS - 18 3' (H234928-18)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 19 3' (H234928-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 20 3' (H234928-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.09	104	2.00	0.952	
Toluene*	<0.050	0.050	09/13/2023	ND	2.09	105	2.00	2.89	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	2.05	102	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	6.17	103	6.00	0.610	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
0/12/2022		Compling Data

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 21 3' (H234928-21)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 22 3' (H234928-22)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 23 3' (H234928-23)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 24 3' (H234928-24)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 25 3' (H234928-25)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 26 3' (H234928-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
09/12/2023		Sampling Date:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 27 3' (H234928-27)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 28 3' (H234928-28)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC	
BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 29 3' (H234928-29)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 30 3' (H234928-30)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
09/12/2023		Sampling Date:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 31 3' (H234928-31)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 32 3' (H234928-32)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 33 3' (H234928-33)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 34 3' (H234928-34)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 35 3' (H234928-35)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC	
BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 36 3' (H234928-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 37 3' (H234928-37)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	197	98.7	200	11.3	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	210	105	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 38 3' (H234928-38)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 39 3' (H234928-39)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 40 3' (H234928-40)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	2.02	101	2.00	2.03	
Toluene*	<0.050	0.050	09/13/2023	ND	2.04	102	2.00	2.65	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.97	98.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.92	98.7	6.00	2.87	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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	MIDLAND TX, 79705		
	Fax To:		
00/12/2022		Sampling Data	
09/12/2023		Sampling Date:	
00/11/1/2022		Construction of Theorem	

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 41 3' (H234928-41)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	QM-07
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 42 3' (H234928-42)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 43 3' (H234928-43)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	49.1-14	8						

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Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 44 3' (H234928-44)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 45 3' (H234928-45)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 46 3' (H234928-46)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC	
BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 47 3' (H234928-47)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: FS - 48 6' (H234928-48)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 1 0-3' (H234928-49)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 2 0-3' (H234928-50)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 3 0-3' (H234928-51)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



03B1417098

EDDY COUNTY

Sample Received By:

09/12/2023

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

	ENSOLUM, LLC		
	BEAUX JENNINGS		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
09/12/2023		Sampling Date:	
09/14/2023		Sampling Type:	
FEDERAL 12 - 1 H B	ATTERY	Sampling Condition:	

Sample ID: SW - 4 0-3' (H234928-52)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 5 0-3' (H234928-53)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 6 0-3' (H234928-54)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 7 0-3' (H234928-55)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Sampling Condition:

Sample Received By:

09/12/2023

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

	ENSOLUM, LLC		
	BEAUX JENNINGS		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
09/12/2023		Sampling Date:	
09/14/2023		Sampling Type:	

FEDERAL 12 - 1 H BATTERY

03B1417098

EDDY COUNTY

Sample ID: SW - 8 0-3' (H234928-56)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	0						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 9 0-6' (H234928-57)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	192	96.1	200	6.49	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	191	95.7	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 10 0-6' (H234928-58)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.6	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	203	101	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



E	ENSOLUM, LLC
E	BEAUX JENNINGS
7	05 W WADLEY AVE.
Ν	4IDLAND TX, 79705
F	ax To:

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 11 0-3' (H234928-59)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.6	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	203	101	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
09/12/2023		Sampling Date:
00/14/2022		

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417098	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY		

Sample ID: SW - 12 0-3' (H234928-60)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2023	ND	1.79	89.5	2.00	4.44	
Toluene*	<0.050	0.050	09/13/2023	ND	1.85	92.5	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/13/2023	ND	1.84	92.0	2.00	4.07	
Total Xylenes*	<0.150	0.150	09/13/2023	ND	5.58	93.0	6.00	3.83	
Total BTEX	<0.300	0.300	09/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2023	ND	197	98.6	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	203	101	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/19/2023 11:55:35 AM

	(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 FAX (575) 393-2476	76						
Company Name:	Ensolum 11 C				BILL	70			ANALYSIS REQUEST
Project Manager:	-	subjutes		P.O.	#				
Address: 601 N.	St. STE	400		Com	Company:				
City: Midland		State: TX	Zip: 79701	Attn:					
Phone #: 210-	8588-612	Fax #:		Address:	ess:				
Project #: 07 6 1	47044	Project Owner:		City:					
<u> </u>	Federa 19	1	HI	State:	: Zip:	×			
Project Location:	Eddy Count	Ath		Phone #:	10 #:				
Sampler Name:	TN6/N0/4	40		Fax #:	77		b		
FOR LAB USE ONLY			ERS ATER ER	MATRIX	PRESERV	SAMPLING	8021		
Lab I.D. H234928	Sample I.D.	Sample Depth (feet)	(G)RAB OR (G # CONTAINE GROUNDWA WASTEWATE	SOIL OIL SLUDGE OTHER : ACID/BASE:	ICE / COOL OTHER :	DATE TIME		Chlou	
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ne	1-14	1/4	10		X	112 12 60	E 1	5	
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9	1-1-1-1	14			XQ	1743 OU	XX	< >	
PLEASE NOTE: Liability and Da analyses. All claims including the	mages. Cardina pse for negligent	lient's exclusive remedy for any cla r cause whatsoever shall be deem	y claim arising whether ba eemed waived unless mai without limitation, business	where based in contract or tort, shall bees made in writing and received b business interruptions, loss of use,	all be limited to the by Cardinal within : e, or loss of profits i	iii be limited to the amount paid by the client for the by Cardinal within 30 days after completion of the a yor case of profits incurred by client, its subaldiaries	e client for the pletion of the applicable its subsidiaries.		
Relinquished By:	ssors arising out of or related to the performance hed By:	Date:	Received By:	ther such claim is based	sed upon any of the abo	All Re	Verbal Result:	□ Yes □ No nailed. Please pro	vers or onswee. Verbal Result: All Results are emailed. Please provide Email address:
In	J.	Time:	SM	DUNNC	one	LA BJe	BJennings@ensolum.com	n.com	
Relinguished By:		Date:	Received By:			REM	REMARKS:	v 	TEMP BIAME: -0.0:
Delivered By: (Circle One)		Observed Temp, °C	. Oz Samp Cool	le Co	(Initials)		Turnaround Time:		90
Sampler - UPS - Bus -	is - Other: C	errected Temp. °C	Ę	Yes A Yes	520	Therm	Thermometer ID #113	1-40	

Page 121 of 147

Page 63 of 68

-aboratories CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 12/19/2023 11:55:35 AM

1					
Project manager: Krow K Je	12mm 1 nas	G	P.O. #:		
. Marienfeld St. S		0	Company:		
City: Midland	State: TX	Zip: 79701 A	Attn:		
Ð	Fax #:	A	Address:		
0381417059	Project Owner:		City:		
	1 H Battery		State: Zip:)	
CIANCA	ė I	T	*	90	
" Easy Lo	CALLY C			,	
Sampler Name: TNG MND LS	SAD	F	Fax #:	L	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMP	ZI.	
Lab I.D. Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TREX 80 TPH 80 CHIO0808	
1011001 FG-11	n	X	×	XXX X 0590	
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20 F4-20	, ic	C'X	X 9/140	A X X BAB	
PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tont, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	Cardinal's liability and client's exclusive remedy for any ci- regligence and any other cause whatsoever shall be deen ble for incidental or consequental damages, including with	ny claim arising whether based in contract or fort, shall be deemed waiwed unless made in writing and received by Ca g without limitation, business interruptions, loss of use, or lo	tort, shall be limited to the amount paid reelved by Cardinal within 30 days after s of use, or loss of profits incurred by d	paid by the client for the after completion of the applicable by client, its subsidiaries,	
Relinquished By:	Date: 9//2/23	Received By:		Verbai Result: Verbai Result:	Add'I Phone #: rovide Email address:
1/2/	Time:	04004Cuon	ACCA T	BJennings@ensolum.com	
Relinquished By:	Date: Time:	Received By:	C	YBMJ TEN	TEMP BLANK: -C
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C	1.0 2 Sample Condition	n CHECKED BY:	Turnaround Time: Standard Rush Thermometer ID -#113 // // // //	d Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

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Marland,	ord
Hobbs, I	LOL
MN	-
88240	PS

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By City: ervice, In no event shall Cardinal be liable for in Sampler Name: Project Name: Federa Project Manager: Project Location: Project #: Phone #: Address: Company Name: EASE NOTE: Liability and 1234928 lyses. All claims FOR LAB USE ONLY Lab I.D. Midland 20 20 20 20 يع 24 Sis D D 8 210-219-8858 0381417058 601 N. Marienfeld St. STE 400 FS 5 1 5 い 5 is -1-S m 2 5. 5 Sample I.D. Beaux Jennings Ensolum, LLC 1 t ę ł. i 1 2 ated to the 52 27 25 20 30 20 N 22 N N oe and any 2 w < ç V other cause whatsoever 4 iental damages, inclu Date: Sample Depth Fax #: Project Owner: State: I NN w WW 2 6 (feet) J -ú ww 5212 shall be X WITHOUT IT Zip: Received By 0 0 C n () (G)RAB OR (C)OMP med walved # CONTAINERS 79701 GROUNDWATER inless made in writing and received by WASTEWATER × × × × × × XX MATRIX × SOIL OIL SLUDGE OTHER State: City: P.O. #: Fax #: Phone #: Attn: Wade Dittrich Company: Address: ACID/BASE PRESERV. ICE / COOL × 1055 7 × XX X × OTHER of pronts BILL TO 575-390-2828 Oxy USA, Inc. within 30 days after con 012-21-5 5 Zip: 2-12-20 5-12-23 2-12-23 (AE2-21-6 00-21-5 9-12-03 89 9-12-23 -12-130 02.21incurred by client, its subsidiaries DATE SAMPLING 0 All Results are emailed. Please provide Email address: Verbal Result: Q 5 20 ons of otherwise TIME tion of the app 5 2 × x x X × 80216 × X x BTEX □ Yes r X X χ X × 2 X 8015 × x 1.5 X × X X K × × x O No Add'l Phone #: ANALYSIS REQUEST

Relinquished By:

Time: 14/16

Date:

Received By:

REMARKS:

EMP BAMP: -0. 62

BJennings@ensolum.com

Time:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp

0.

Sample Condition Cool Intact PY85 Yes No No No

CHECKED BY:

Turnaround Time:

Standard

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Bacteria (only) Sample Condition

Observed Temp. Corrected Temp. °C

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Yehrs

Correction Factor 9.5°C

#

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Cool Intact

Unitials

00100

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Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

ARDINAL

Company Name: Project Manager: Address: 601 N	Ensolum, LLC Beauy Jen I. Marienfeld St. STE	400		P.O. #: Company:
ā		State: TX	Zip: 79701 Attn:	A
0	3588-612-	Fax #:	Add	Address:
Project #: 037	14778%	Project Owner:	City:	
	FORM 12-	(H hotte	Y State:	te: Zip:
Project Location:	Eddy Count	W N AT	Pho	Phone #:
i tojoot - to - to	TN6/11/0/9	(I)	Fax #:	#
FOR LABUSE ONLY	1 100 1000 1	V	MATRIX	PRESERV. SAMPLING
Lab I.D.	Sample I.D.	Sample Depth (feet)	AB OR (C)OMP. INTAINERS UNDWATER ITEWATER DGE IER :	D/BASE: / COOL HER :
H234928	R-2	2		× ICE
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35	86-24	r	C I X	41/61/0 ×
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PLEASE NOTE: Liability and	nd Damages, Cardinal's liability and	Jien's exclusive remedy for a	Ho The second se	t, shall be limited to the amount paid by the client for the ived by Cardinal within 30 days after completion of the a
affiliates or successors arisin	ervice. In no event shall Cardinal be liable for incidental or conse ervice. In no event shall Cardinal be liable for incidental or conse filiate or successors arising out of or related to the performance	equental damages, includin or of services hereunder by	service. In no event shall Cardinal be liable for incidental or consequential damages, including without fimitation, business intemptions, loss or use, or uses or provident event of the above stated reasons or observes, and the above stated reasons or observes, and the service a strong out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or observes, and the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or observes.	ed upon any of the above stated rear
Relinquished By:	A:	Th D	Received By:	All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	y:	Date: Time:	Received By:	0.0
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	her:	Observed Temp. *C	Cool Intact Cool Intact A Yes Yes	CHECKED BY:

Page 66 of 68

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 12/19/2023 11:55:35 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(-				•	NIAI VO		REOUEST		
Company Name: Ensolum. LLC				DIL	110			ł	1					1
Project Manager: Raux Je	ennings			P.O. #:			_	_	_	_	_		_	_
St. S	STE 400			Company:			_	_	_	_		-	_	-
City: Midland	State: TX	Zip:	79701	Attn:			_	_	_	_	_		_	
Phone # 210-219-8858	Fax #:			Address:			_	_)		_	-	_	-
03814170S	Project Owner:			City:			_	20			_	_	_	-
me: Esderal 12-	The Batter	~		State:	Zip:		_	~	9	_		-	_	_
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-	VEIC	-	MATRIX	PRESERV.	SAMPLING	LING	>2	5	e	_		-	_	-
FOR LAB USE ONLY			R				80	801	rid			-		
Lab I.D. Sample I.D.	Sample Depth (feet)	RAB OR (C)	OUNDWATE ASTEWATER	HER : ID/BASE: E / COOL			BIEX	TPH	Chlor					
51 SW-3	9-3	_		X	5/12/23	1050	X	K						+
h-ms 25	0-3	CI	X	X	4/12/23	1052	X	K						+
53 SW-5	0-3	0	×	X	2/12/23	1054		5	Ê					-
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	010		X	5	9/17/2	1106	X	0	0					-
ANI-	5-0	C	×	X	aluta	8011	X	X				-	F	F
PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whetherever shall be deemed walved unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall be factional be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or less of profits incurred by client, its subsidiaries, service.	and client's exclusive remedy for a other cause whatecever shall be consequental damages, including	ny claim a deemed w without fir	rising whether based in contra alved unless made in writing a mitation, business interruptions	ct or tort, shall be ilmited to nd received by Cardinal w I loss of use, or loss of pro	o the amount pai libin 30 days after afts incurred by o	d by the client for the r completion of the slient, its subsidiarie	applicable a,							
affiaite or successors arising out of or related to the periodmatics Relinquished By:	Date:	Rec	Received By:	VIV		Verbal Result: Ves No Add'l Phone #: All Results are emailed. Please provide Email address: BJennings@ensolum.com	are ema s@enso	J Yes liled. P	ease provi	Add'l Pho ide Email	address:			
Relinquished By:	Date: Time:	Rec	Received By:	dar C	1	REMARKS:	A	M	8	An	MP BIAME: - O.UZ	0.00	1.2	
Delivered By: (Circle One)	Observed Temp. *C	10:	0.00		(Initials)	Turnaround Time:	18		Rush Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp.	() Sample C Observe	ample Condition Observed Temp. °C	
Sampler - UPS - Bus - Other:	Corrected Temp. *C		TYes T	No A	(Correction Factor	riD star		401	S	No No	Correct	No No Corrected Temp. °C	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Sample Condition Cool Intact Yes Yes No No No

K 3.2 10/01

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September 25, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: FEDERAL 12 - 1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/19/23 14:21.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: SW - 5 0'-3' (H235081-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/25/2023	ND	416	104	400	0.00	

Sample ID: DS - 1 0'-0.25' (H235081-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									
emonae	48.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	48.0 mg/			ND d By: MS	416	104	400	0.00	
					416 BS	104 % Recovery	400 True Value QC	0.00 RPD	Qualifier
ТРН 8015М	mg/	kg	Analyze	d By: MS					Qualifier
TPH 8015M Analyte	mg / Result	' kg Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Surrogate: 1-Chlorooctane

92.4 % 48.2-134

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: DS - 1 0'-0.25' (H235081-02)

TPH 8015M	mg,	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	106	% 49.1-148							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: DS - 2 0'-0.25' (H235081-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	QM-07
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:			
Received:	09/19/2023	Sampling Date:	09/19/2023	
Reported:	09/25/2023	Sampling Type:	Soil	
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact	
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos	
Project Location:	OXY - EDDY COUNTY			

Sample ID: DS - 3 0'-0.25' (H235081-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received: Reported:	09/19/2023 09/25/2023	Sampling Date: Sampling Type:	09/19/2023 Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number: Project Location:	03B1417058 OXY - EDDY COUNTY	Sample Received By:	Dionica Hinojos

Sample ID: DS - 4 0'-0.25' (H235081-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: DS - 5 0'-0.25' (H235081-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		-

Sample ID: DS - 6 0'-0.25' (H235081-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	197	98.4	200	8.23	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	211	106	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: DS - 7 0'-0.25' (H235081-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	197	98.4	200	8.23	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	211	106	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		

Sample ID: DS - 8 0'-0.25' (H235081-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/20/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	197	98.4	200	8.23	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	211	106	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417058	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY COUNTY		-

Sample ID: DS - 9 0'-0.25' (H235081-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.03	102	2.00	4.02	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.22	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	5.76	96.0	6.00	6.46	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	197	98.4	200	8.23	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	211	106	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name:	Ensolum, LLC	nsolum, LLC		BILL TO	0	A	ANALYSIS REQUEST
Project Manager: Beaux Jennings	Beaux Jenning	s		P.O. #:	_		
Address: 601 N Marienfeld Street, Suite 400	Narienfeld Street	, Suite 400		Company: Oxy USA Inc.	Inc.		
City: Midland		State: TX	Zip: 79701	Attn: Wade Dittrich		_	
Phone #: 210-219-8858	-8858	Fax #:		Address:			
Project #: 5381417058	850414	Project Owner:	а	City:			
Project Name: Federa	land 12-14	Billery		State: Zip:			
Project Location:	EWY	YYY '		#: 575	28	2	
Sampler Name:	eur J	ins KADTIL	511.1.	Fax #:		D	
k		man 1 An	MATRIX	SERV	21	5	
			S ER		807	4	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)C # CONTAINERS GROUNDWATE! WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	BTEX	Childre: de	
1	SW-S	0-3	N X			×	
e	DS-1	0-0.25	61				
:0	X - 3N	-			1242 1 1	-	
10	2-20				1248		
~	US-M				NSO		
3-6	2220				1251		
m	N-1				1250		
90	DC- 0				INSH		
DI FASE NOTE: ILLER DA D	Rt	0-0.25	G V X	9/10/23	X X Secul	X	
lyses. All claims including th see. In no event shall Cardin aftes or successors arising or	those for negligence and any dinal be liable for incidental or out of or related to the perform	registence and any other cause environment removes any cause areas whether pa registence and any other cause whatboever shall be deemed whyed unless ble for incidential or consequential demages, including without limitation, business elated to the performance of services hereunder by Cardinal, reported as of wheel	de ir s intr	in contrast or tort, shall be limited to the another to I writing and received by Cardenal within 30 days at struptions, loss of use, or loss of profile incurred by such claim is based upon where of the above another or such claim is based upon where of the above another or such claim is based upon where of the above another or such claim is based upon and of the above another or such claim is based upon and of the above another or such claim is based upon and other above another or such claim is based upon an or of the above another or such claim is based upon an or of the above another or such claim is a such as a s	aid by the client for the ter completion of the applicable client, its subsidiaries,		
Relinquished By:		Date: 9/19/12	ed By:	District Depend for its frim reads a second	Verbal Result: Ves	DANO	Add'l Phone #:
1 million	9	Time: HHAI	PAR		emai	Please prov	mail address:
Kelinquished By:		Date: Time:	Received By:		REMARKS:		
Delivered By: (Circle One)	e One)						
Sampler- UPS - Bus - Other:	s - Other:	Corrected Temp. "C	Cool Intact	(Initials)	Thermometer ID	Standard X	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Laboratories

Page 13 of 13

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

QUESTIONS

Action 296177

	QUESTIONS
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	296177
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS Droroguioitoo

Frerequisites	
Incident ID (n#)	nAB1700440047
Incident Name	NAB1700440047 FEDERAL 12 #001H @ 30-015-40840
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40840] FEDERAL 12 #001H

Location of Release Source

Please answer all the questions in this group.	
Site Name	FEDERAL 12 #001H
Date Release Discovered	12/16/2016
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Corrosion | Flow Line - Production | Produced Water | Released: 20 BBL | Recovered: Produced Water Released (bbls) Details 10 BBL | Lost: 10 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

QUESTIONS, Page 2

Action 296177

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	296177
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator

Email: wade_dittrich@oxy.com

Date: 12/19/2023

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

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District IV

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QUESTIONS, Page 3

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Action 296177

QUESTIONS (continued) Operator: OGRID: OXY USA INC 16696 P.O. Box 4294 Action Number: Houston, TX 772104294 296177 Action Type:

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

		o the appropriate district office no later than 90 days after the release discovery date.
Please answer all the questions th	at apply or are indicated. This information must be provided to	o the appropriate district onice no later than 30 days after the release discovery date.
Requesting a remediation p	plan approval with this submission	Yes
Attach a comprehensive report der	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	2200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 N		0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 N which includes the anticipated time	MAC unless the site characterization report includes complete	
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date wil	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date will On what date will (or did) th	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date wil On what date will (or did) th On what date will (or was) t	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 09/19/2023
Per Subsection B of 19.15.29.11 N hich includes the anticipated time On what estimated date wil On what date will (or did) th On what date will (or was) t What is the estimated surfa	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur the remediation complete(d)	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM/ 09/12/2023 09/19/2023
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volun	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur the remediation complete(d) ice area (in square feet) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM/ 09/12/2023 09/19/2023 09/19/2023 13125
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volun What is the estimated surfa	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur the remediation complete(d) ince area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 09/19/2023 09/19/2023 13125 2430

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

OR is the off-site disposal site, to be used, an NMED facility

(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)

Ground Water Abatement pursuant to 19.15.30 NMAC

OTHER (Non-listed remedial process)

(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)

(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)

(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)

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(In Situ) Soil Vapor Extraction

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

QUESTIONS, Page 4

Action 296177

Operator OGRID: OXY USA INC 16696 P.O. Box 4294 Action Number: Houston, TX 772104294 296177 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS Remediation Plan (continued) Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal LEA LAND LANDFILL [fEEM0112342028] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered.

Not answered.

Not answered

Not answered.

Not answered

Not answered.

Not answered.

Not answered.

Not answered.

QUESTIONS (continued)

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

	Name: Wade Dittrich
I hereby agree and sign off to the above statement	Title: Environmental Coordinator
Thereby agree and sign on to the above statement	Email: wade_dittrich@oxy.com
	Date: 12/19/2023
The OCD recognizes that proposed remediation measures may have to be minimally adju	isted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 12/26/2023 11:37:05 AM

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

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QUESTIONS, Page 5

Action 296177

QUESTIONS (continued)	
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294 Houston, TX 772104294	Action Number: 296177
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
OUFSTIONS	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

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

QUESTIONS, Page 6

Action 296177

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	296177	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	296173
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2023
What was the (estimated) number of samples that were to be gathered	69
What was the sampling surface area in square feet	13125

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	13125	
What was the total volume (cubic yards) remediated	2430	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	13125	
What was the total volume (in cubic yards) reclaimed	2430	
Summarize any additional remediation activities not included by answers (above)	None	
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of	
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 under the any the artificing the addition of OCD acceptance of a C-141 report does not relieve the operator of liability should their operators are called to adequately investigate and remediate contamination that pose a threat to groundwater, surface		

pocal 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
rior 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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com
	Date: 12/19/2023

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QUESTIONS, Page 7

Action 296177

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ber: 96177
: C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Peclamation Penort

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

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CONDITIONS

Action 296177

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	296177
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/26/2023
amaxwell	Per 19.15.29.12.C.(3) the responsible party must remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production, or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards AND restore and reclaim the area pursuant to 19.15.29.13 NMAC.	12/26/2023
amaxwell	Submit reclamation report via the OCD permitting portal by 4/30/2024.	12/26/2023