



April 17, 2025

**New Mexico Oil Conservation Division**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request Addendum  
Nash Unit #012  
Incident Number NAB1722948770  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum* to present additional remediation activities completed at the Nash Unit #012 (Site), in response to the denial of the original *Closure Request*, submitted to the New Mexico Oil Conservation Division (NMOCD) on February 8, 2019. In the denial, NMOCD requested the collection of additional delineation samples. Based on soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting no further action for Incident Number NAB1722948770.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The release was reported at the incorrect location, the wellhead of the associated polyline, but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located along a lease road to the north of the Site. The release is located in Unit I, Section 12, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.319367°, -103.931736°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 29, 2017, a polyline ruptured, resulting in the release of approximately 22 barrels (bbls) of produced water and 4 bbls of crude oil. A vacuum truck was dispatched to the Site to recover free standing fluids; approximately 3 bbls of produced water and 0.5 bbls of crude oil were recovered. XTO reported the release to the NMOCD via email on July 29, 2017 and submitted a Form C-141 Application (C-141) on August 11, 2017. The release was assigned Incident Number NAB1722948770.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04594 POD 3, located approximately 0.6 miles south of the Site. The groundwater well has a reported depth to groundwater of 27 feet bgs

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and a total depth of 38 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a stream, located approximately 230 feet west of the Site. The Site is less than 200 feet from a playa lake, a salt lake. The Site is greater than 200 feet from a lakebed or sinkhole and greater than 300 feet from an occupied residence, school, hospital, institution, church. The Site is less than 300 feet from a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Potential Site receptors are identified in Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## BACKGROUND

Between July 31, 2017 and February 6, 2019, Basin Environmental Service Technologies (Basin) and another consultant conducted Site assessment, delineation, and Micro-Blaze® application activities in response to the release. XTO submitted a *Closure Request* on February 8, 2019, requesting no further action (NFA) following Micro-Blaze® and soil sampling activities. All previously completed remedial activities can be found in the original *Closure Request* included as an appendix in this report. On June 14, 2023, NMOCD denied the *Closure Request* via email correspondence (Appendix B) for Incident Number NAB1722948770 for the following reason:

*Due to the high naturally occurring chloride concentrations, the OCD is requesting that further soil samples be collected and analyzed for BTEX, TPH, and chlorides to determine the effectiveness of the in-situ remediation micro-blaze application. Samples will need to be collected from the original 17 sampling points at the surface, 1 foot below ground surface (bgs), and 2 feet bgs.*

## DELINEATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 14, 2023, Ensolum personnel returned to the Site to collect additional delineation samples within the release extent. Seventeen boreholes (BH01 through BH17) were advanced via hand auger at the respective locations of previously collected soil samples SP1 through SP17 to a maximum depth of 2 feet bgs. Three discrete soil samples were collected from each borehole at depths of 0.5 feet, 1-foot, and 2 feet bgs. Field observations for each borehole were documented on a lithologic soil sampling log and are included as Appendix C. The soil sample locations are depicted on Figure 2. Photographic documentation of the delineation sampling activities is included in Appendix D.

The soil samples were placed into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency

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(EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for all soil samples collected from BH01 through BH17 indicated BTEX and TPH concentrations were in compliance with the Closure Criteria. Chloride concentrations were elevated as a result of naturally occurring conditions associated with the adjacent salt lake. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

## CLOSURE REQUEST

Soil sampling activities were conducted at the Site to address the July 29, 2017, crude oil and produced water release. Laboratory analytical results for soil samples collected within the release extent, from depths ranging from 0.5 feet to 2 feet bgs, indicated that BTEX and TPH concentrations were compliant with the Site Closure Criteria, successfully confirming the effectiveness of the in-situ remediation micro-blaze application. As discussed in the *Closure Request* (Appendix F), chloride concentrations are elevated as a result of naturally occurring conditions associated with the adjacent playa lake. Chloride concentrations reported from the July 14, 2023, sampling event were consistent with naturally occurring chloride levels observed in background samples collected outside of the release footprint in February 2019 (Appendix F).

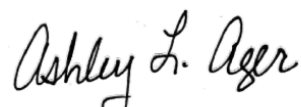
XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1722948770.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Project Geologist



Ashley L. Ager, M.S., P.G.  
Principal

cc: Kaylan Dirkx, XTO  
Colton Brown, XTO  
BLM

### Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	NMOCD Correspondence
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation

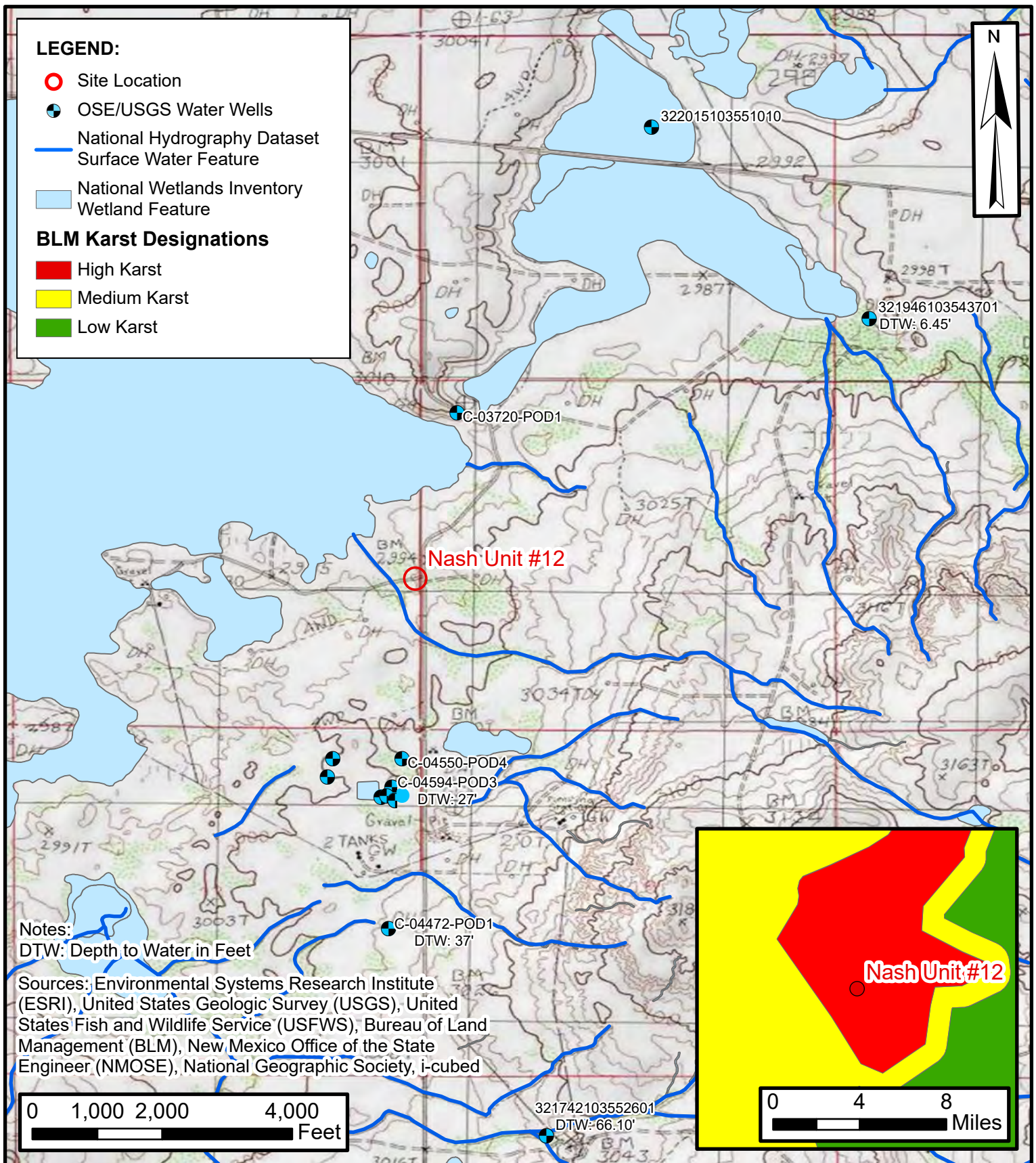
XTO Energy, Inc  
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Appendix F    *Closure Request*, February 8, 2019



FIGURES





## Site Location Map

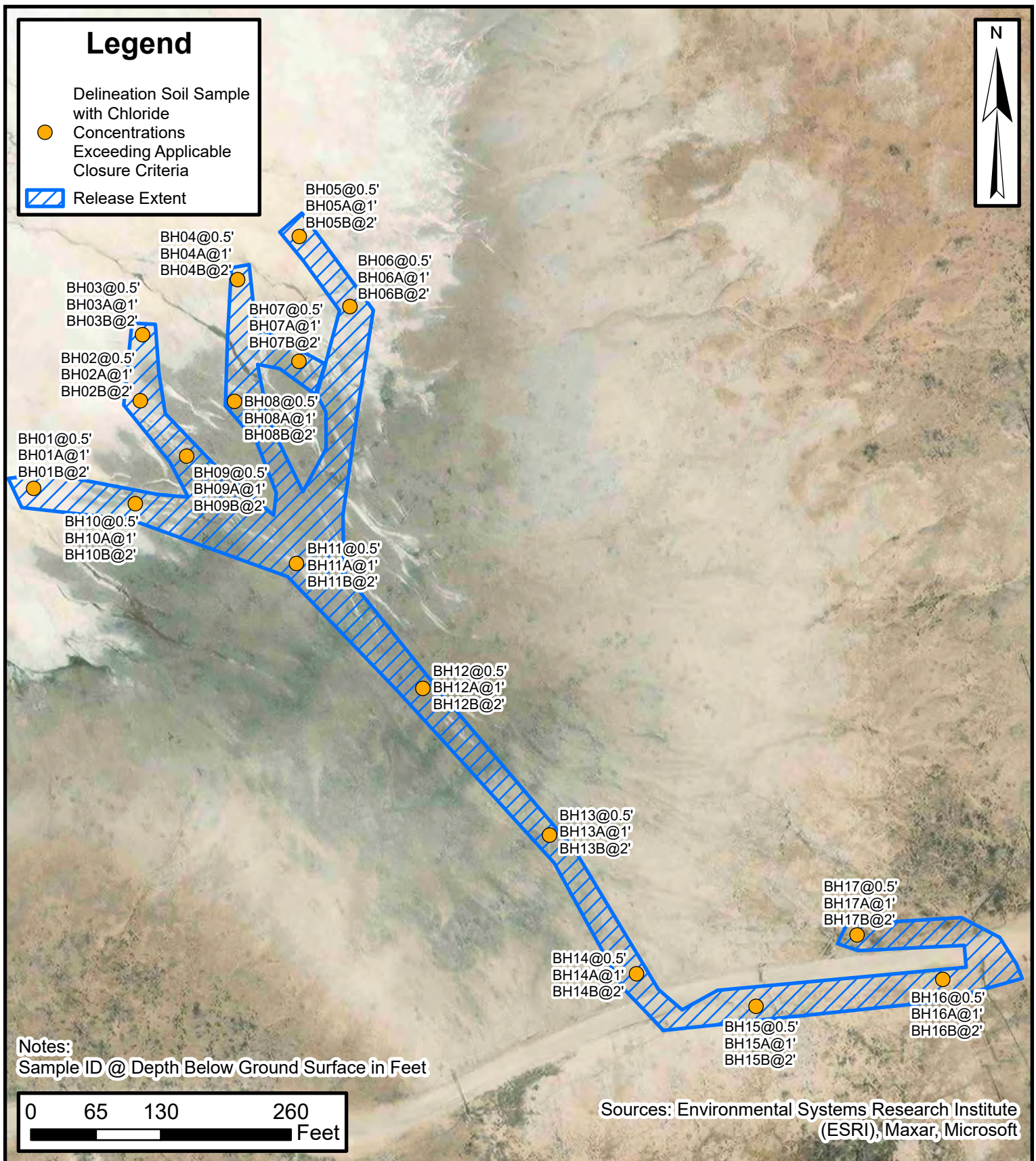
Nash Unit #012  
XTO Energy, Inc.

Incident Number: NAB1722948770  
Unit I, Sec 12, T23S, R29E  
Eddy County, New Mexico

FIGURE

1





## Delineation Soil Sample Locations

Nash Unit #012  
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Unit I, Sec 12, T23S, R29E  
Eddy County, New Mexico

FIGURE  
**2**



TABLES





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Nash Unit #012  
 XTO Energy, Inc.  
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH01	07/14/2023	0.5	<0.00199	<0.00398	<49.9	73.4	<49.9	73.4	73.4	43,900
BH01A	07/14/2023	1	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	39,200
BH01B	07/14/2023	2	<0.00201	<0.00402	<49.5	<49.5	<49.5	<49.5	<49.5	38,400
BH02	07/14/2023	0.5	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	48,400
BH02A	07/14/2023	1	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	49,600
BH02B	07/14/2023	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	56,200
BH03	07/14/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	43,300
BH03A	07/14/2023	1	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	50,100
BH03B	07/14/2023	2	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	48,400
BH04	07/14/2023	0.5	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	41,800
BH04A	07/14/2023	1	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	41,600
BH04B	07/14/2023	2	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	40,000
BH05	07/14/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	42,500
BH05A	07/14/2023	1	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<49.6	43,200
BH05B	07/14/2023	2	<0.00198	<0.00396	<49.5	<49.5	<49.5	<49.5	<49.5	43,100
BH06	07/14/2023	0.5	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	40,700
BH06A	07/14/2023	1	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	47,800
BH06B	07/14/2023	2	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	48,900
BH07	07/14/2023	0.5	<0.00199	<0.00398	<49.9	53.6	<49.9	53.6	53.6	58,600
BH07A	07/14/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	49,500
BH07B	07/14/2023	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	40,600
BH08	07/14/2023	0.5	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	49,800
BH08A	07/14/2023	1	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	54,600
BH08B	07/14/2023	2	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	50,400
BH09	07/14/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	34,500
BH09A	07/14/2023	1	<0.00198	<0.00396	<49.8	51.4	<49.8	51.4	51.4	46,700
BH09B	07/14/2023	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	43,900
BH10	07/14/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	46,700
BH10A	07/14/2023	1	<0.00200	<0.00400	<50.3	<50.3	<50.3	<50.3	<50.3	36,600
BH10B	07/14/2023	2	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	34,000



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Nash Unit #012  
 XTO Energy, Inc.  
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BH11	07/14/2023	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	<b>29,000</b>
BH11A	07/14/2023	1	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	<b>32,200</b>
BH11B	07/14/2023	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	<b>29,700</b>
BH12	07/14/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<b>25,700</b>
BH12A	07/14/2023	1	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	<b>31,700</b>
BH12B	07/14/2023	2	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	<b>27,600</b>
BH13	07/14/2023	0.5	<0.00202	<0.00404	<50.5	<50.5	<50.5	<50.5	<50.5	<b>19,400</b>
BH13A	07/14/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<b>20,000</b>
BH13B	07/14/2023	2	<0.00198	<0.00397	<50.4	<50.4	<50.4	<50.4	<50.4	<b>23,200</b>
BH14	07/14/2023	0.5	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	<b>26,200</b>
BH14A	07/14/2023	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	<b>32,100</b>
BH14B	07/14/2023	2	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	<b>23,600</b>
BH15	07/14/2023	0.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	<b>12,900</b>
BH15A	07/14/2023	1	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<49.6	<b>13,800</b>
BH15B	07/14/2023	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<b>17,200</b>
BH16	07/14/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<b>18,400</b>
BH16A	07/14/2023	1	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	<b>17,500</b>
BH16B	07/14/2023	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	<b>10,600</b>
BH17	07/14/2023	0.5	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	<b>13,500</b>
BH17A	07/14/2023	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	<b>13,700</b>
BH17B	07/14/2023	2	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	<b>10,600</b>

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



## APPENDIX A


### Referenced Well Records

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# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map
NA	C 04594 POD3	SE	NE	NE	13	23S	29E	600645.3	3575280.2	

\* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.UELENER				
Drill Start Date:	2022-02-21	Drill Finish Date:	2022-02-21	Plug Date:	2023-04-19
Log File Date:	2022-03-30	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	0
Casing Size:	2.07	Depth Well:	38	Depth Water:	27

## Water Bearing Stratifications:

Top	Bottom	Description
7	37	Other/Unknown

## Casing Perforations:

Top	Bottom
28	38

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

1/15/25 12:46 PM MST

Point of Diversion Summary

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## APPENDIX B

### NMOCD Correspondence

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**From:** [Tacoma Morrissey](#)  
**To:** [Ben Belill](#)  
**Subject:** Fwd: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 195552  
**Date:** Thursday, July 6, 2023 1:34:13 PM

---

**Tacoma Morrissey**  
Senior Geologist  
337-257-8307  
**Ensolum, LLC**

---

**From:** Green, Garrett J <garrett.green@exxonmobil.com>  
**Sent:** Wednesday, June 14, 2023 4:48:18 PM  
**To:** Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Ashley Ager <aager@ensolum.com>  
**Cc:** Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>  
**Subject:** FW: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 195552

[ \*\*EXTERNAL EMAIL\*\* ]

---

**From:** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>  
**Sent:** Wednesday, June 14, 2023 3:38 PM  
**To:** Green, Garrett J <garrett.green@exxonmobil.com>  
**Cc:** Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 195552

**External Email - Think Before You Click**

Mr. Green,

The approval for incident #nAB1722948770 was an error made during the processing of historic duplicate applications. The application ID #199258 for the approval has been returned to "Under OCD Review" and subsequently rejected.

Pursuant to 19.15.29.16 B. operators with ongoing corrective actions/remediation without approved timelines or plans as of August 14, 2018 must submit a characterization plan or corrective action/remediation plan with proposed timeframes within 90 days of August 14, 2018. As no remediation plan was found to be submitted and approved prior to the rule change or within the

transitional timeline, the current rules will apply to this release.

Due to the high naturally occurring chloride concentrations, the OCD is requesting that further soil samples be collected and analyzed for BTEX, TPH, and chlorides to determine the effectiveness of the in-situ remediation micro-blaze application. Samples will need to be collected from the original 17 sampling points at the surface, 1 foot below ground surface (bgs), and 2 feet bgs.

If there are any TPH and/or BTEX concentrations above the most stringent closure criteria, further delineation will need to be performed. Once delineation is completed a remediation plan will need to be submitted to the OCD through the OCD Permitting website. Approval of the plan must be granted prior to implementation.

XTO can submitted a written variance request for the revegetation requirement of 19.15.29.13 NMAC and the remediation closure standard for the chloride concentrations. All variance requests will need to comply with the requirements of 19.15.29.14 NMAC.

Do not hesitate to reach out if you have any questions or require any additional information.

Thank you,

**Brittany Hall** • Environmental Specialist  
Environmental Bureau Projects Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87110  
505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd/>

---

**From:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>

**Sent:** Friday, June 9, 2023 2:19 PM

**To:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>

**Cc:** Pennington, Shelby G <[shelby.g.pennington@exxonmobil.com](mailto:shelby.g.pennington@exxonmobil.com)>; DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>

**Subject:** [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 195552

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

Ms. Hall,

We understand no approved remediation plan was in place for this Site when the remediation was completed between July 2017 and September 2017. The spill response activities were conducted prior to publication of the transitional provisions of 19.15.29 NMAC. Submittal and approval of corrective action plans was not a regular industry or regulatory practice prior to publication of Part 29. In addition, NMOCD has granted approval for the closure of this Incident (nAB1722948770) via

email on March 21, 2023. Please see the attached approval email. In light of standard practice at the time the work was conducted, the regulatory changes that occurred between the time the work was completed and review by NMOCD, and contradictory conclusions drawn by NMOCD staff demonstrating different approaches to this site, can you please reconsider your response and grant approval of the original Closure Request?

Thank you,

**Garrett Green**

Environmental Coordinator  
Delaware Business Unit  
(575) 200-0729  
[Garrett.Green@ExxonMobil.com](mailto:Garrett.Green@ExxonMobil.com)

XTO Energy, Inc.  
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>

**Sent:** Thursday, March 9, 2023 3:58 PM

**To:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>

**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 195552

**External Email - Think Before You Click**

To whom it may concern (c/o Garrett Green for XTO ENERGY, INC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAB1722948770, for the following reasons:

- **No approved corrective action plan for the release could be found. Per 19.15.29.11 (effective 12/1/2018) "CORRECTIVE ACTION: The responsible person shall complete division-approved corrective action 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". Under 19.15.29.16 19.15.29.16 (effective 8/14/2018) "TRANSITIONAL PROVISIONS: A. Responsible parties with current ongoing corrective actions/remediation with approved plans and timelines as of August 14, 2018 do not have to submit revised plans. B. Responsible parties with ongoing corrective actions/remediation without approved timelines or plans as of August 14, 2018 must submit a characterization plan or corrective action/remediation plan with proposed**



timeframes within 90 days of August 14, 2018."

- NMOCD's Guidelines for Spill, Leaks, and Releases, dated 1993, has closure standards that are based on depth to groundwater, if the site is in a wellhead protection area, and distance to surface water body. None of these were determined in the report. Based on a brief evaluation of these ranking criteria the ranking score for this site would have been >19 which would make the RRALs in 2017. TPH remediation action levels would have been 100 mg/kg as opposed to 5,000 mg/kg as stated in the report.
- If an approved corrective action plan can be found it is highly recommended that it is attached to the closure report. If no approved corrective action plan can be found, this release will need to be closed under the current rules.
- 2RP-4347 closed. Refer to incident #NAB1722948770 in all future communication.
- Submit a complete report though the OCD Permitting website by 6/9/2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 195552.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

Thank you,  
Brittany Hall  
Projects Environmental Specialist - A  
505-517-5333  
[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)


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




## APPENDIX C


### Lithologic Soil Sampling Logs


---


 <b>ENSOLUM</b>		Sample Name: BH01		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.319947, -103.932964			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH01	0.5			Dark brown clavev. silty sand
Wet				BH01A	1	1		Dark brown clavev. silty sand
Wet				BH01B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH02		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320185, -103.932616			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH02	0.5			Dark brown clayev. silty sand
Wet				BH02A	1	1		Dark brown clayev. silty sand
Wet				BH02B	2	2		Dark brown clayev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		




 <b>ENSOLUM</b>		Sample Name: BH03		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320366, -103.932606			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH03	0.5			Dark brown clavev. silty sand
Wet				BH03A	1	1		Dark brown clavev. silty sand
Wet				BH03B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH04		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320515, -103.932296			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH04	0.5			Dark brown clavev. silty sand
Wet				BH04A	1	1		Dark brown clavev. silty sand
Wet				BH04B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH05		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320632, -103.932096			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH05	0.5			Dark brown clavev. silty sand
Wet				BH05A	1	1		Dark brown clavev. silty sand
Wet				BH05B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH06		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320439, -103.931934			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH06	0.5			Dark brown clavev. silty sand
Wet				BH06A	1	1		Dark brown clavev. silty sand
Wet				BH06B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		





 <b>ENSOLUM</b>		Sample Name: BH07		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320289, -103.932101			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH07	0.5			Dark brown clavev. silty sand
Wet				BH07A	1	1		Dark brown clavev. silty sand
Wet				BH07B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <b>ENSOLUM</b>		Sample Name: BH08		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320181, -103.932310			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH08	0.5			Dark brown clavev. silty sand
Wet				BH08A	1	1		Dark brown clavev. silty sand
Wet				BH08B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH09		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.320032, -103.932468			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH09	0.5			Dark brown clayev. silty sand
Wet				BH09A	1	1		Dark brown clayev. silty sand
Wet				BH09B	2	2		Dark brown clayev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH10		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.319903, -103.932635			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH10	0.5			Dark brown clavev. silty sand
Wet				BH10A	1	1		Dark brown clavev. silty sand
Wet				BH10B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH11		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.319733, -103.932115			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH11	0.5			Dark brown clavev. silty sand
Wet				BH11A	1	1		Dark brown clavev. silty sand
Wet				BH11B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <b>ENSOLUM</b>		Sample Name: BH12		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.319387, -103.931710			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH12	0.5			Dark brown clavev. silty sand
Wet				BH12A	1	1		Dark brown clavev. silty sand
Wet				BH12B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		




 <b>ENSOLUM</b>		Sample Name: BH13		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.318980, -103.931304			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH13	0.5			Dark brown clavev. silty sand
Wet				BH13A	1	1		Dark brown clavev. silty sand
Wet				BH13B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <b>ENSOLUM</b>		Sample Name: BH14		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.318597, -103.931028			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH14	0.5			Dark brown clavev. silty sand
Wet				BH14A	1	1		Dark brown clavev. silty sand
Wet				BH14B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <b>ENSOLUM</b>		Sample Name: BH15		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.318504, -103.930641			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH15	0.5			Dark brown clavev. silty sand
Wet				BH15A	1	1		Dark brown clavev. silty sand
Wet				BH15B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <b>ENSOLUM</b>		Sample Name: BH16		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.318573, -103.930036			Hole Diameter: 3"	Total Depth: 2'				
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH16	0.5			Dark brown clavev. silty sand
Wet				BH16A	1	1		Dark brown clavev. silty sand
Wet				BH16B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <b>ENSOLUM</b>		Sample Name: BH17		Date: 7/14/2023				
		Site Name: Nash Unit 12						
		Incident Number: NAB1722948770						
		Job Number: 03C1558259						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.318698, -103.930312			Logged By: Meredith Roberts		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screenings not conducted								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Wet				BH17	0.5			Dark brown clavev. silty sand
Wet				BH17A	1	1		Dark brown clavev. silty sand
Wet				BH17B	2	2		Dark brown clavev. silty sand
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		



## APPENDIX D

### Photographic Log

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**Photographic Log**

XTO Energy, Inc.

Nash Unit #012

Incident Number NAB1722948770



Photograph: 1 Date: 7/14/2023  
Description: Delineation activities  
View: West



Photograph: 2 Date: 7/14/2023  
Description: Delineation activities  
View: West



Photograph: 3 Date: 7/14/2023  
Description: Delineation activities  
View: East



Photograph: 4 Date: 7/14/2023  
Description: Delineation activities  
View: North





## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tacoma Morrissey  
Ensolum  
601 N. Marienfeld St.  
Suite 400  
Midland, Texas 79701

Generated 7/31/2023 3:24:04 PM

## JOB DESCRIPTION

Nash Unit 12  
SDG NUMBER 03C1558259

## JOB NUMBER

890-4950-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
7/31/2023 3:24:04 PM

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

Client: Ensolum  
Project/Site: Nash Unit 12

Laboratory Job ID: 890-4950-1  
SDG: 03C1558259

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Definitions/Glossary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## Job ID: 890-4950-1

## Laboratory: Eurofins Carlsbad

## Narrative

Job Narrative  
890-4950-1

## Receipt

The samples were received on 7/14/2023 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

## Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4950-1), BH01A (890-4950-2), BH01B (890-4950-3), BH02 (890-4950-4), BH02A (890-4950-5), BH02B (890-4950-6), BH03 (890-4950-7), BH03A (890-4950-8), BH03B (890-4950-9), BH04 (890-4950-10), BH04A (890-4950-11), BH04B (890-4950-12), BH05 (890-4950-13), BH05A (890-4950-14), BH05B (890-4950-15), BH06 (890-4950-16), BH06A (890-4950-17), BH06B (890-4950-18), BH07 (890-4950-19), BH07A (890-4950-20), BH07B (890-4950-21), BH08 (890-4950-22), BH08A (890-4950-23), BH08B (890-4950-24), BH09 (890-4950-25), BH09A (890-4950-26), BH09B (890-4950-27), BH10 (890-4950-28), BH10A (890-4950-29), BH10B (890-4950-30), BH11 (890-4950-31), BH11A (890-4950-32), BH11B (890-4950-33), BH12 (890-4950-34), BH12A (890-4950-35), BH12B (890-4950-36), BH13 (890-4950-37), BH13A (890-4950-38), BH13B (890-4950-39), BH14 (890-4950-40), BH14A (890-4950-41), BH14B (890-4950-42), BH15 (890-4950-43), BH15A (890-4950-44), BH15B (890-4950-45), BH16 (890-4950-46), BH16A (890-4950-47), BH17 (890-4950-48), BH16B (890-4950-49), BH17A (890-4950-50) and BH17B (890-4950-51).

Sample container(s) was provided by the client for the following samples: BH01 (890-4950-1), BH01A (890-4950-2), BH01B (890-4950-3), BH02 (890-4950-4), BH02A (890-4950-5), BH02B (890-4950-6), BH03 (890-4950-7), BH03A (890-4950-8), BH03B (890-4950-9), BH04 (890-4950-10), BH04A (890-4950-11), BH04B (890-4950-12), BH05 (890-4950-13), BH05A (890-4950-14), BH05B (890-4950-15), BH06 (890-4950-16), BH06A (890-4950-17), BH06B (890-4950-18), BH07 (890-4950-19), BH07A (890-4950-20), BH07B (890-4950-21), BH08 (890-4950-22), BH08A (890-4950-23), BH08B (890-4950-24), BH09 (890-4950-25), BH09A (890-4950-26), BH09B (890-4950-27), BH10 (890-4950-28), BH10A (890-4950-29), BH10B (890-4950-30), BH11 (890-4950-31), BH11A (890-4950-32), BH11B (890-4950-33), BH12 (890-4950-34), BH12A (890-4950-35), BH12B (890-4950-36), BH13 (890-4950-37), BH13A (890-4950-38), BH13B (890-4950-39), BH14 (890-4950-40), BH14A (890-4950-41), BH14B (890-4950-42), BH15 (890-4950-43), BH15A (890-4950-44), BH15B (890-4950-45), BH16 (890-4950-46), BH16A (890-4950-47), BH17 (890-4950-48), BH16B (890-4950-49), BH17A (890-4950-50) and BH17B (890-4950-51)  
890-4950 #3,#5,#6 water in the sample- client needs contacted and samples will go to midland for testing

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): BH01 (890-4950-1), BH01A (890-4950-2), BH01B (890-4950-3), BH02 (890-4950-4), BH02A (890-4950-5), BH02B (890-4950-6), BH03 (890-4950-7), BH03A (890-4950-8), BH03B (890-4950-9), BH04 (890-4950-10), BH04A (890-4950-11), BH04B (890-4950-12), BH05 (890-4950-13), BH05A (890-4950-14), BH05B (890-4950-15), BH06 (890-4950-16), BH06A (890-4950-17), BH06B (890-4950-18), BH07 (890-4950-19), BH07A (890-4950-20), BH07B (890-4950-21), BH08 (890-4950-22), BH08A (890-4950-23), BH08B (890-4950-24), BH09 (890-4950-25), BH09A (890-4950-26), BH09B (890-4950-27), BH10 (890-4950-28), BH10A (890-4950-29), BH10B (890-4950-30), BH11 (890-4950-31), BH11A (890-4950-32), BH11B (890-4950-33), BH12 (890-4950-34), BH12A (890-4950-35), BH12B (890-4950-36), BH13 (890-4950-37), BH13A (890-4950-38), BH13B (890-4950-39), BH14 (890-4950-40), BH14A (890-4950-41), BH14B (890-4950-42), BH15 (890-4950-43), BH15A (890-4950-44), BH15B (890-4950-45), BH16 (890-4950-46), BH16A (890-4950-47), BH17 (890-4950-48), BH16B (890-4950-49), BH17A (890-4950-50) and BH17B (890-4950-51). The container labels list <SAMPLE\_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION\_REQUIRED>.

89-4950

Sample #10

Jar: bh05 10:05 @ 0.5' 7-14-23

COC: BH04 09:35 @ 0.5 7-14-23

This is the same sample based off similar name, date is the same and depth is the same- last to be labeled this is the same sample

Sample #16

Jar BH06 09:35 @ 0.5' 7-14-23

COC BH06 10:05 @ 0.5' 7-14-23

Based off sample name, depth and date these are the same samples

all samples will be sent to midland

GC VOA

## Case Narrative

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

**Job ID: 890-4950-1 (Continued)****Laboratory: Eurofins Carlsbad (Continued)**

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-57991/33). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57991 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57991/2).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57991 recovered below the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57991/33).

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-58038 and analytical batch 880-57991 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57972 and analytical batch 880-58258 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58258 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58258/33).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58258 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58258/51).

Method 8021B: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-58151/2-A)

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-58151 and analytical batch 880-58250 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4950-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57974 and analytical batch 880-58285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58285 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-58285/2).

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58404 and analytical batch 880-58772 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-4950-1), BH01A



## Case Narrative

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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**Job ID: 890-4950-1 (Continued)**

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**Laboratory: Eurofins Carlsbad (Continued)**

(890-4950-2), BH01B (890-4950-3), BH02 (890-4950-4), BH03A (890-4950-8), BH04A (890-4950-11), BH04B (890-4950-12), BH07B (890-4950-21), BH08 (890-4950-22), BH09B (890-4950-27), BH10A (890-4950-29), BH12B (890-4950-36), BH13 (890-4950-37), BH13A (890-4950-38), (MB 880-58403/1-A), (MB 880-58404/1-A), (890-4950-A-21-H MS) and (890-4950-A-21-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The CCV was biased low for gasoline range hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-58792/20)

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH14A (890-4950-41), BH15A (890-4950-44) and BH17 (890-4950-48). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57875 and analytical batch 880-58007 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH01

Lab Sample ID: 890-4950-1

Date Collected: 07/14/23 08:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		07/18/23 16:18	07/22/23 21:04	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		07/18/23 16:18	07/22/23 21:04	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		07/18/23 16:18	07/22/23 21:04	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		07/18/23 16:18	07/22/23 21:04	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		07/18/23 16:18	07/22/23 21:04	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		07/18/23 16:18	07/22/23 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/18/23 16:18	07/22/23 21:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/18/23 16:18	07/22/23 21:04	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.4		49.9	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 10:54	1
Diesel Range Organics (Over C10-C28)	73.4		49.9	mg/Kg		07/24/23 17:21	07/29/23 10:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	07/24/23 17:21	07/29/23 10:54	1
o-Terphenyl	113		70 - 130	07/24/23 17:21	07/29/23 10:54	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43900		252	mg/Kg			07/19/23 08:53	50

Client Sample ID: BH01A

Lab Sample ID: 890-4950-2

Date Collected: 07/14/23 08:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 21:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 21:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 21:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/18/23 16:18	07/22/23 21:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 21:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/18/23 16:18	07/22/23 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	07/18/23 16:18	07/22/23 21:25	1

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH01A

Lab Sample ID: 890-4950-2

Date Collected: 07/14/23 08:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	119		70 - 130	07/18/23 16:18	07/22/23 21:25	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 12:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 12:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			07/24/23 17:21	07/29/23 12:00	1
o-Terphenyl	113		70 - 130			07/24/23 17:21	07/29/23 12:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39200		249	mg/Kg			07/19/23 09:08	50

Client Sample ID: BH01B

Lab Sample ID: 890-4950-3

Date Collected: 07/14/23 09:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 21:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 21:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 21:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/22/23 21:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 21:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/22/23 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/18/23 16:18	07/22/23 21:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130	07/18/23 16:18	07/22/23 21:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			07/31/23 15:49	1

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH01B

Lab Sample ID: 890-4950-3

Date Collected: 07/14/23 09:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 12:21	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 12:21	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130			07/24/23 17:21	07/29/23 12:21	1
o-Terphenyl	128		70 - 130			07/24/23 17:21	07/29/23 12:21	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38400		249	mg/Kg			07/19/23 09:13	50

Client Sample ID: BH02

Lab Sample ID: 890-4950-4

Date Collected: 07/14/23 09:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/22/23 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/18/23 16:18	07/22/23 22:06	1
1,4-Difluorobenzene (Surr)	112		70 - 130			07/18/23 16:18	07/22/23 22:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 12:43	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 12:43	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			07/24/23 17:21	07/29/23 12:43	1
o-Terphenyl	121		70 - 130			07/24/23 17:21	07/29/23 12:43	1

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH02

Lab Sample ID: 890-4950-4

Date Collected: 07/14/23 09:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48400		252	mg/Kg			07/19/23 09:18	50

Client Sample ID: BH02A

Lab Sample ID: 890-4950-5

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/18/23 16:18	07/22/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/18/23 16:18	07/22/23 22:27	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/18/23 16:18	07/22/23 22:27	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 13:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 13:06	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/24/23 17:21	07/29/23 13:06	1
o-Terphenyl	105		70 - 130			07/24/23 17:21	07/29/23 13:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49600		250	mg/Kg			07/19/23 09:23	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH02B

Lab Sample ID: 890-4950-6

Date Collected: 07/14/23 09:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 22:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 22:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 22:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/18/23 16:18	07/22/23 22:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/22/23 22:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/18/23 16:18	07/22/23 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/18/23 16:18	07/22/23 22:48	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/18/23 16:18	07/22/23 22:48	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 13:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	07/24/23 17:21	07/29/23 13:28	1
o-Terphenyl	109		70 - 130	07/24/23 17:21	07/29/23 13:28	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56200		250	mg/Kg			07/19/23 09:38	50

Client Sample ID: BH03

Lab Sample ID: 890-4950-7

Date Collected: 07/14/23 09:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/18/23 16:18	07/22/23 23:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/18/23 16:18	07/22/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/18/23 16:18	07/22/23 23:08	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH03

Lab Sample ID: 890-4950-7

Date Collected: 07/14/23 09:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	07/18/23 16:18	07/22/23 23:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 13:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 13:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/24/23 17:21	07/29/23 13:50	1
o-Terphenyl	99		70 - 130			07/24/23 17:21	07/29/23 13:50	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43300		251	mg/Kg			07/19/23 09:43	50

Client Sample ID: BH03A

Lab Sample ID: 890-4950-8

Date Collected: 07/14/23 09:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/22/23 23:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 23:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/22/23 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/18/23 16:18	07/22/23 23:29	1
1,4-Difluorobenzene (Surr)	115		70 - 130	07/18/23 16:18	07/22/23 23:29	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH03A

Lab Sample ID: 890-4950-8

Date Collected: 07/14/23 09:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 14:12	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 14:12	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			07/24/23 17:21	07/29/23 14:12	1
o-Terphenyl	124		70 - 130			07/24/23 17:21	07/29/23 14:12	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50100		252	mg/Kg			07/19/23 09:48	50

Client Sample ID: BH03B

Lab Sample ID: 890-4950-9

Date Collected: 07/14/23 09:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/22/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/18/23 16:18	07/22/23 23:50	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/18/23 16:18	07/22/23 23:50	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 14:34	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 14:34	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/24/23 17:21	07/29/23 14:34	1
o-Terphenyl	107		70 - 130			07/24/23 17:21	07/29/23 14:34	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## Client Sample ID: BH03B

Lab Sample ID: 890-4950-9

Date Collected: 07/14/23 09:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48400		248	mg/Kg			07/19/23 09:53	50

## Client Sample ID: BH04

Lab Sample ID: 890-4950-10

Date Collected: 07/14/23 09:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/18/23 16:18	07/23/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/18/23 16:18	07/23/23 00:10	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/18/23 16:18	07/23/23 00:10	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/24/23 17:21	07/29/23 14:56	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/24/23 17:21	07/29/23 14:56	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/24/23 17:21	07/29/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			07/24/23 17:21	07/29/23 14:56	1
o-Terphenyl	108		70 - 130			07/24/23 17:21	07/29/23 14:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41800		249	mg/Kg			07/19/23 09:58	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH04A

Lab Sample ID: 890-4950-11

Date Collected: 07/14/23 09:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 01:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 01:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 01:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/18/23 16:18	07/23/23 01:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 01:33	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/18/23 16:18	07/23/23 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/18/23 16:18	07/23/23 01:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/23 16:18	07/23/23 01:33	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 15:40	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 15:40	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	07/24/23 17:21	07/29/23 15:40	1
o-Terphenyl	127		70 - 130	07/24/23 17:21	07/29/23 15:40	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41600		252	mg/Kg			07/19/23 10:03	50

Client Sample ID: BH04B

Lab Sample ID: 890-4950-12

Date Collected: 07/14/23 09:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 01:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 01:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 01:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/23/23 01:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 01:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:18	07/23/23 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/18/23 16:18	07/23/23 01:53	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH04B

Lab Sample ID: 890-4950-12

Date Collected: 07/14/23 09:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	07/18/23 16:18	07/23/23 01:53	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 16:02	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 16:02	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:21	07/29/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			07/24/23 17:21	07/29/23 16:02	1
o-Terphenyl	124		70 - 130			07/24/23 17:21	07/29/23 16:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40000		250	mg/Kg			07/19/23 10:18	50

Client Sample ID: BH05

Lab Sample ID: 890-4950-13

Date Collected: 07/14/23 09:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 02:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 02:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 02:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 02:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 02:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/18/23 16:18	07/23/23 02:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/18/23 16:18	07/23/23 02:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH05

Lab Sample ID: 890-4950-13

Date Collected: 07/14/23 09:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 16:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 16:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			07/24/23 17:21	07/29/23 16:24	1
o-Terphenyl	103		70 - 130			07/24/23 17:21	07/29/23 16:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42500		249	mg/Kg			07/19/23 10:23	50

Client Sample ID: BH05A

Lab Sample ID: 890-4950-14

Date Collected: 07/14/23 09:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/18/23 16:18	07/23/23 02:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			07/18/23 16:18	07/23/23 02:34	1
1,4-Difluorobenzene (Surr)	116		70 - 130			07/18/23 16:18	07/23/23 02:34	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 16:47	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 16:47	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/24/23 17:21	07/29/23 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			07/24/23 17:21	07/29/23 16:47	1
o-Terphenyl	95		70 - 130			07/24/23 17:21	07/29/23 16:47	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH05A

Lab Sample ID: 890-4950-14

Date Collected: 07/14/23 09:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43200		209	mg/Kg			07/19/23 10:38	50

Client Sample ID: BH05B

Lab Sample ID: 890-4950-15

Date Collected: 07/14/23 10:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/18/23 16:18	07/23/23 02:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			07/18/23 16:18	07/23/23 02:55	1
1,4-Difluorobenzene (Surr)	113		70 - 130			07/18/23 16:18	07/23/23 02:55	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 17:08	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 17:08	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		07/24/23 17:21	07/29/23 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			07/24/23 17:21	07/29/23 17:08	1
o-Terphenyl	106		70 - 130			07/24/23 17:21	07/29/23 17:08	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43100		251	mg/Kg			07/19/23 10:43	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH06

Lab Sample ID: 890-4950-16

Date Collected: 07/14/23 10:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/23/23 03:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/23/23 03:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/23/23 03:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/23/23 03:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:18	07/23/23 03:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:18	07/23/23 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/23 16:18	07/23/23 03:16	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/18/23 16:18	07/23/23 03:16	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 17:30	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 17:30	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	07/24/23 17:21	07/29/23 17:30	1
o-Terphenyl	107		70 - 130	07/24/23 17:21	07/29/23 17:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40700		250	mg/Kg			07/19/23 10:48	50

Client Sample ID: BH06A

Lab Sample ID: 890-4950-17

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/18/23 16:18	07/23/23 03:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/18/23 16:18	07/23/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/23 16:18	07/23/23 03:36	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH06A

Lab Sample ID: 890-4950-17

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	07/18/23 16:18	07/23/23 03:36	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 17:52	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 17:52	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:21	07/29/23 17:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/24/23 17:21	07/29/23 17:52	1
o-Terphenyl	107		70 - 130			07/24/23 17:21	07/29/23 17:52	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47800		250	mg/Kg			07/19/23 10:53	50

Client Sample ID: BH06B

Lab Sample ID: 890-4950-18

Date Collected: 07/14/23 10:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/18/23 16:18	07/23/23 03:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:18	07/23/23 03:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/18/23 16:18	07/23/23 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/23 16:18	07/23/23 03:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/18/23 16:18	07/23/23 03:57	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH06B

Lab Sample ID: 890-4950-18

Date Collected: 07/14/23 10:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 18:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 18:14	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 17:21	07/29/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/24/23 17:21	07/29/23 18:14	1
o-Terphenyl	114		70 - 130			07/24/23 17:21	07/29/23 18:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48900		249	mg/Kg			07/19/23 10:58	50

Client Sample ID: BH07

Lab Sample ID: 890-4950-19

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			07/18/23 16:18	07/23/23 04:18	1
1,4-Difluorobenzene (Surr)	113		70 - 130			07/18/23 16:18	07/23/23 04:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.6		49.9	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 18:36	1
Diesel Range Organics (Over C10-C28)	53.6		49.9	mg/Kg		07/24/23 17:21	07/29/23 18:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/24/23 17:21	07/29/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			07/24/23 17:21	07/29/23 18:36	1
o-Terphenyl	107		70 - 130			07/24/23 17:21	07/29/23 18:36	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH07

Lab Sample ID: 890-4950-19

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58600		250	mg/Kg			07/19/23 11:03	50

Client Sample ID: BH07A

Lab Sample ID: 890-4950-20

Date Collected: 07/14/23 10:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:18	07/23/23 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			07/18/23 16:18	07/23/23 04:38	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/18/23 16:18	07/23/23 04:38	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 18:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 18:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:21	07/29/23 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/24/23 17:21	07/29/23 18:57	1
o-Terphenyl	109		70 - 130			07/24/23 17:21	07/29/23 18:57	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49500		248	mg/Kg			07/19/23 11:08	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH07B

Lab Sample ID: 890-4950-21

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		07/18/23 16:31	07/23/23 14:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 14:34	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		07/18/23 16:31	07/23/23 14:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 14:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 14:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	07/18/23 16:31	07/23/23 14:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/18/23 16:31	07/23/23 14:34	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/29/23 20:45	1
Diesel Range Organics (Over C10-C28)	<50.3	U F1	50.3	mg/Kg		07/24/23 17:29	07/29/23 20:45	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/29/23 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	07/24/23 17:29	07/29/23 20:45	1
o-Terphenyl	116		70 - 130	07/24/23 17:29	07/29/23 20:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40600		253	mg/Kg			07/19/23 09:36	50

Client Sample ID: BH08

Lab Sample ID: 890-4950-22

Date Collected: 07/14/23 10:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 14:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 14:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 14:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 14:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 14:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/18/23 16:31	07/23/23 14:54	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH08

Lab Sample ID: 890-4950-22

Date Collected: 07/14/23 10:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/23 16:31	07/23/23 14:54	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 21:49	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 21:49	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			07/24/23 17:29	07/29/23 21:49	1
o-Terphenyl	122		70 - 130			07/24/23 17:29	07/29/23 21:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49800		249	mg/Kg			07/19/23 09:54	50

Client Sample ID: BH08A

Lab Sample ID: 890-4950-23

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/18/23 16:31	07/23/23 15:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/18/23 16:31	07/23/23 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/18/23 16:31	07/23/23 15:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/18/23 16:31	07/23/23 15:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH08A

Lab Sample ID: 890-4950-23

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/29/23 22:10	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/29/23 22:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/29/23 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/24/23 17:29	07/29/23 22:10	1
o-Terphenyl	111		70 - 130			07/24/23 17:29	07/29/23 22:10	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54600		250	mg/Kg			07/19/23 10:00	50

Client Sample ID: BH08B

Lab Sample ID: 890-4950-24

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			07/18/23 16:31	07/23/23 15:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130			07/18/23 16:31	07/23/23 15:35	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:29	07/29/23 22:31	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:29	07/29/23 22:31	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:29	07/29/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/24/23 17:29	07/29/23 22:31	1
o-Terphenyl	115		70 - 130			07/24/23 17:29	07/29/23 22:31	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH08B

Lab Sample ID: 890-4950-24

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50400		250	mg/Kg			07/19/23 10:06	50

Client Sample ID: BH09

Lab Sample ID: 890-4950-25

Date Collected: 07/14/23 10:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			07/18/23 16:31	07/23/23 15:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/18/23 16:31	07/23/23 15:55	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/29/23 22:53	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/29/23 22:53	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/29/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/24/23 17:29	07/29/23 22:53	1
o-Terphenyl	113		70 - 130			07/24/23 17:29	07/29/23 22:53	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34500		249	mg/Kg			07/19/23 10:13	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH09A

Lab Sample ID: 890-4950-26

Date Collected: 07/14/23 10:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 16:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 16:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 16:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/18/23 16:31	07/23/23 16:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 16:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/18/23 16:31	07/23/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/18/23 16:31	07/23/23 16:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/18/23 16:31	07/23/23 16:16	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.4		49.8	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:29	07/29/23 23:14	1
Diesel Range Organics (Over C10-C28)	51.4		49.8	mg/Kg		07/24/23 17:29	07/29/23 23:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:29	07/29/23 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	07/24/23 17:29	07/29/23 23:14	1
o-Terphenyl	102		70 - 130	07/24/23 17:29	07/29/23 23:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46700		248	mg/Kg			07/19/23 10:31	50

Client Sample ID: BH09B

Lab Sample ID: 890-4950-27

Date Collected: 07/14/23 10:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 16:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 16:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 16:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 16:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 16:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/18/23 16:31	07/23/23 16:36	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH09B

Lab Sample ID: 890-4950-27

Date Collected: 07/14/23 10:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/23 16:31	07/23/23 16:36	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 23:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 23:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/24/23 17:29	07/29/23 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			07/24/23 17:29	07/29/23 23:35	1
o-Terphenyl	122		70 - 130			07/24/23 17:29	07/29/23 23:35	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43900		253	mg/Kg			07/19/23 10:37	50

Client Sample ID: BH10

Lab Sample ID: 890-4950-28

Date Collected: 07/14/23 11:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 16:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 16:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 16:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 16:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 16:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/18/23 16:31	07/23/23 16:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/18/23 16:31	07/23/23 16:57	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH10

Lab Sample ID: 890-4950-28

Date Collected: 07/14/23 11:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 23:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			07/24/23 17:29	07/29/23 23:56	1
o-Terphenyl	112		70 - 130			07/24/23 17:29	07/29/23 23:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46700		250	mg/Kg			07/19/23 10:43	50

Client Sample ID: BH10A

Lab Sample ID: 890-4950-29

Date Collected: 07/14/23 11:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/18/23 16:31	07/23/23 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/18/23 16:31	07/23/23 17:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/18/23 16:31	07/23/23 17:17	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 00:17	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 00:17	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	204	S1+	70 - 130			07/24/23 17:29	07/30/23 00:17	1
o-Terphenyl	186	S1+	70 - 130			07/24/23 17:29	07/30/23 00:17	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH10A

Lab Sample ID: 890-4950-29

Date Collected: 07/14/23 11:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36600		248	mg/Kg			07/19/23 10:50	50

Client Sample ID: BH10B

Lab Sample ID: 890-4950-30

Date Collected: 07/14/23 11:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/18/23 16:31	07/23/23 17:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/18/23 16:31	07/23/23 17:37	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 00:39	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 00:39	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			07/24/23 17:29	07/30/23 00:39	1
o-Terphenyl	119		70 - 130			07/24/23 17:29	07/30/23 00:39	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34000		248	mg/Kg			07/19/23 10:56	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH11

Lab Sample ID: 890-4950-31

Date Collected: 07/14/23 11:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 19:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 19:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 19:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/18/23 16:31	07/23/23 19:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 19:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/18/23 16:31	07/23/23 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	07/18/23 16:31	07/23/23 19:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/18/23 16:31	07/23/23 19:29	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:21	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:21	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	07/24/23 17:29	07/30/23 01:21	1
o-Terphenyl	118		70 - 130	07/24/23 17:29	07/30/23 01:21	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29000		249	mg/Kg			07/19/23 11:02	50

Client Sample ID: BH11A

Lab Sample ID: 890-4950-32

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 19:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 19:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 19:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/18/23 16:31	07/23/23 19:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 19:49	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/18/23 16:31	07/23/23 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/18/23 16:31	07/23/23 19:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH11A

Lab Sample ID: 890-4950-32

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	07/18/23 16:31	07/23/23 19:49	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:42	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:42	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/24/23 17:29	07/30/23 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			07/24/23 17:29	07/30/23 01:42	1
o-Terphenyl	116		70 - 130			07/24/23 17:29	07/30/23 01:42	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32200		249	mg/Kg			07/19/23 11:20	50

Client Sample ID: BH11B

Lab Sample ID: 890-4950-33

Date Collected: 07/14/23 11:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/18/23 16:31	07/23/23 20:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/18/23 16:31	07/23/23 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/18/23 16:31	07/23/23 20:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/23 16:31	07/23/23 20:09	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH11B

Lab Sample ID: 890-4950-33

Date Collected: 07/14/23 11:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:29	07/30/23 02:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 17:29	07/30/23 02:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:29	07/30/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/24/23 17:29	07/30/23 02:03	1
o-Terphenyl	107		70 - 130			07/24/23 17:29	07/30/23 02:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29700		250	mg/Kg			07/19/23 11:26	50

Client Sample ID: BH12

Lab Sample ID: 890-4950-34

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/18/23 16:31	07/23/23 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/18/23 16:31	07/23/23 20:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/18/23 16:31	07/23/23 20:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/24/23 17:29	07/30/23 02:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/24/23 17:29	07/30/23 02:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/24/23 17:29	07/30/23 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/24/23 17:29	07/30/23 02:25	1
o-Terphenyl	115		70 - 130			07/24/23 17:29	07/30/23 02:25	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH12

Lab Sample ID: 890-4950-34

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25700		252	mg/Kg			07/19/23 11:45	50

Client Sample ID: BH12A

Lab Sample ID: 890-4950-35

Date Collected: 07/14/23 11:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/18/23 16:31	07/23/23 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/18/23 16:31	07/23/23 20:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/18/23 16:31	07/23/23 20:50	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 02:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 02:46	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 02:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/24/23 17:29	07/30/23 02:46	1
o-Terphenyl	111		70 - 130			07/24/23 17:29	07/30/23 02:46	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31700		250	mg/Kg			07/19/23 11:51	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH12B

Lab Sample ID: 890-4950-36

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 21:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 21:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 21:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 21:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 21:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/18/23 16:31	07/23/23 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/18/23 16:31	07/23/23 21:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/18/23 16:31	07/23/23 21:11	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 03:07	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 03:07	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/24/23 17:29	07/30/23 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130	07/24/23 17:29	07/30/23 03:07	1
o-Terphenyl	168	S1+	70 - 130	07/24/23 17:29	07/30/23 03:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27600		248	mg/Kg			07/19/23 11:57	50

Client Sample ID: BH13

Lab Sample ID: 890-4950-37

Date Collected: 07/14/23 11:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 21:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 21:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 21:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/18/23 16:31	07/23/23 21:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 21:31	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/18/23 16:31	07/23/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/18/23 16:31	07/23/23 21:31	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH13

Lab Sample ID: 890-4950-37

Date Collected: 07/14/23 11:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	07/18/23 16:31	07/23/23 21:31	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/30/23 03:28	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/30/23 03:28	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:29	07/30/23 03:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			07/24/23 17:29	07/30/23 03:28	1
o-Terphenyl	133	S1+	70 - 130			07/24/23 17:29	07/30/23 03:28	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19400		248	mg/Kg			07/19/23 12:03	50

Client Sample ID: BH13A

Lab Sample ID: 890-4950-38

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 21:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 21:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 21:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 21:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/18/23 16:31	07/23/23 21:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/18/23 16:31	07/23/23 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/18/23 16:31	07/23/23 21:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/18/23 16:31	07/23/23 21:51	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/23 15:49	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH13A

Lab Sample ID: 890-4950-38

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/30/23 03:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/30/23 03:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/30/23 03:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			07/24/23 17:29	07/30/23 03:49	1
o-Terphenyl	139	S1+	70 - 130			07/24/23 17:29	07/30/23 03:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20000		252	mg/Kg			07/19/23 12:09	50

Client Sample ID: BH13B

Lab Sample ID: 890-4950-39

Date Collected: 07/14/23 11:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/18/23 16:31	07/23/23 22:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			07/18/23 16:31	07/23/23 22:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/18/23 16:31	07/23/23 22:12	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 04:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 04:10	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 17:29	07/30/23 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/24/23 17:29	07/30/23 04:10	1
o-Terphenyl	109		70 - 130			07/24/23 17:29	07/30/23 04:10	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH13B

Lab Sample ID: 890-4950-39

Date Collected: 07/14/23 11:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23200		248	mg/Kg			07/19/23 12:16	50

Client Sample ID: BH14

Lab Sample ID: 890-4950-40

Date Collected: 07/14/23 12:00

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/18/23 16:31	07/23/23 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			07/18/23 16:31	07/23/23 22:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/18/23 16:31	07/23/23 22:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			07/31/23 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 04:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 04:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/24/23 17:29	07/30/23 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			07/24/23 17:29	07/30/23 04:31	1
o-Terphenyl	120		70 - 130			07/24/23 17:29	07/30/23 04:31	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26200		253	mg/Kg			07/19/23 12:22	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH14A

Lab Sample ID: 890-4950-41

Date Collected: 07/14/23 12:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 12:46	1
Toluene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 12:46	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 12:46	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		07/20/23 13:55	07/22/23 12:46	1
o-Xylene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 12:46	1
Xylenes, Total	<0.00402	U *- *1	0.00402	mg/Kg		07/20/23 13:55	07/22/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/20/23 13:55	07/22/23 12:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/20/23 13:55	07/22/23 12:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 10:53	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 10:53	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	07/24/23 17:37	07/30/23 10:53	1
o-Terphenyl	132	S1+	70 - 130	07/24/23 17:37	07/30/23 10:53	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32100		249	mg/Kg			07/19/23 09:14	50

Client Sample ID: BH14B

Lab Sample ID: 890-4950-42

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:06	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:06	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:06	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		07/20/23 13:55	07/22/23 13:06	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:06	1
Xylenes, Total	<0.00401	U *- *1	0.00401	mg/Kg		07/20/23 13:55	07/22/23 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/20/23 13:55	07/22/23 13:06	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH14B

Lab Sample ID: 890-4950-42

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	07/20/23 13:55	07/22/23 13:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 11:59	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 11:59	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 11:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/24/23 17:37	07/30/23 11:59	1
o-Terphenyl	120		70 - 130			07/24/23 17:37	07/30/23 11:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23600		250	mg/Kg			07/19/23 09:19	50

Client Sample ID: BH15

Lab Sample ID: 890-4950-43

Date Collected: 07/14/23 12:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 13:27	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 13:27	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 13:27	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		07/20/23 13:55	07/22/23 13:27	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 13:27	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		07/20/23 13:55	07/22/23 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/20/23 13:55	07/22/23 13:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/20/23 13:55	07/22/23 13:27	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 16:01	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH15

Lab Sample ID: 890-4950-43

Date Collected: 07/14/23 12:15

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 12:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 12:21	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			07/24/23 17:37	07/30/23 12:21	1
o-Terphenyl	122		70 - 130			07/24/23 17:37	07/30/23 12:21	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12900		99.0	mg/Kg			07/19/23 09:24	20

Client Sample ID: BH15A

Lab Sample ID: 890-4950-44

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
Toluene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
Ethylbenzene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
m-Xylene & p-Xylene	<0.00400	U *1	0.00400	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/Kg		07/20/23 13:55	07/22/23 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/20/23 13:55	07/22/23 13:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130			07/20/23 13:55	07/22/23 13:47	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/24/23 17:37	07/30/23 12:43	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/24/23 17:37	07/30/23 12:43	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/24/23 17:37	07/30/23 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			07/24/23 17:37	07/30/23 12:43	1
o-Terphenyl	133	S1+	70 - 130			07/24/23 17:37	07/30/23 12:43	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH15A

Lab Sample ID: 890-4950-44

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13800		101	mg/Kg			07/19/23 09:29	20

Client Sample ID: BH15B

Lab Sample ID: 890-4950-45

Date Collected: 07/14/23 12:25

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
Toluene	<0.00199	U * *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
Ethylbenzene	<0.00199	U * *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
m-Xylene & p-Xylene	<0.00398	U * *1	0.00398	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
o-Xylene	<0.00199	U * *1	0.00199	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
Xylenes, Total	<0.00398	U * *1	0.00398	mg/Kg		07/20/23 13:55	07/22/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/20/23 13:55	07/22/23 14:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/20/23 13:55	07/22/23 14:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 17:37	07/30/23 13:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 17:37	07/30/23 13:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 17:37	07/30/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/24/23 17:37	07/30/23 13:05	1
o-Terphenyl	115		70 - 130			07/24/23 17:37	07/30/23 13:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17200		250	mg/Kg			07/19/23 09:35	50

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH16

Lab Sample ID: 890-4950-46

Date Collected: 07/14/23 12:30

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 16:19	1
Toluene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 16:19	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 16:19	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		07/20/23 13:55	07/22/23 16:19	1
o-Xylene	<0.00201	U *- *1	0.00201	mg/Kg		07/20/23 13:55	07/22/23 16:19	1
Xylenes, Total	<0.00402	U *- *1	0.00402	mg/Kg		07/20/23 13:55	07/22/23 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/20/23 13:55	07/22/23 16:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/20/23 13:55	07/22/23 16:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 13:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	07/24/23 17:37	07/30/23 13:27	1
o-Terphenyl	127		70 - 130	07/24/23 17:37	07/30/23 13:27	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18400	F1	248	mg/Kg			07/19/23 09:40	50

Client Sample ID: BH16A

Lab Sample ID: 890-4950-47

Date Collected: 07/14/23 12:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 16:40	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 16:40	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 16:40	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		07/20/23 13:55	07/22/23 16:40	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 16:40	1
Xylenes, Total	<0.00401	U *- *1	0.00401	mg/Kg		07/20/23 13:55	07/22/23 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/20/23 13:55	07/22/23 16:40	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH16A

Lab Sample ID: 890-4950-47

Date Collected: 07/14/23 12:35

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	07/20/23 13:55	07/22/23 16:40	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 13:49	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 13:49	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/24/23 17:37	07/30/23 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/24/23 17:37	07/30/23 13:49	1
o-Terphenyl	115		70 - 130			07/24/23 17:37	07/30/23 13:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17500		250	mg/Kg			07/19/23 09:55	50

Client Sample ID: BH17

Lab Sample ID: 890-4950-48

Date Collected: 07/14/23 12:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	mg/Kg		07/20/23 13:55	07/22/23 17:00	1
Toluene	<0.00202	U * *1	0.00202	mg/Kg		07/20/23 13:55	07/22/23 17:00	1
Ethylbenzene	<0.00202	U * *1	0.00202	mg/Kg		07/20/23 13:55	07/22/23 17:00	1
m-Xylene & p-Xylene	<0.00403	U * *1	0.00403	mg/Kg		07/20/23 13:55	07/22/23 17:00	1
o-Xylene	<0.00202	U * *1	0.00202	mg/Kg		07/20/23 13:55	07/22/23 17:00	1
Xylenes, Total	<0.00403	U * *1	0.00403	mg/Kg		07/20/23 13:55	07/22/23 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/20/23 13:55	07/22/23 17:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/20/23 13:55	07/22/23 17:00	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/31/23 16:01	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH17

Lab Sample ID: 890-4950-48

Date Collected: 07/14/23 12:40

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/24/23 17:37	07/30/23 14:11	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/24/23 17:37	07/30/23 14:11	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/24/23 17:37	07/30/23 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			07/24/23 17:37	07/30/23 14:11	1
o-Terphenyl	125		70 - 130			07/24/23 17:37	07/30/23 14:11	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13500		100	mg/Kg			07/19/23 10:00	20

Client Sample ID: BH16B

Lab Sample ID: 890-4950-49

Date Collected: 07/14/23 12:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
Toluene	<0.00198	U *1	0.00198	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
Ethylbenzene	<0.00198	U *1	0.00198	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
m-Xylene & p-Xylene	<0.00397	U *1	0.00397	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
Xylenes, Total	<0.00397	U *1	0.00397	mg/Kg		07/20/23 13:55	07/22/23 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/20/23 13:55	07/22/23 17:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130			07/20/23 13:55	07/22/23 17:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/24/23 17:37	07/30/23 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/24/23 17:37	07/30/23 14:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/24/23 17:37	07/30/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			07/24/23 17:37	07/30/23 14:33	1
o-Terphenyl	118		70 - 130			07/24/23 17:37	07/30/23 14:33	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH16B

Lab Sample ID: 890-4950-49

Date Collected: 07/14/23 12:45

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		99.4	mg/Kg			07/19/23 10:16	20

Client Sample ID: BH17A

Lab Sample ID: 890-4950-50

Date Collected: 07/14/23 12:50

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
Toluene	<0.00200	U * *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
Ethylbenzene	<0.00200	U * *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
m-Xylene & p-Xylene	<0.00400	U * *1	0.00400	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
o-Xylene	<0.00200	U * *1	0.00200	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
Xylenes, Total	<0.00400	U * *1	0.00400	mg/Kg		07/20/23 13:55	07/22/23 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			07/20/23 13:55	07/22/23 17:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130			07/20/23 13:55	07/22/23 17:41	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 09:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/24/23 17:37	07/30/23 14:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/24/23 17:37	07/30/23 14:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/24/23 17:37	07/30/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/24/23 17:37	07/30/23 14:56	1
o-Terphenyl	110		70 - 130			07/24/23 17:37	07/30/23 14:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13700		99.0	mg/Kg			07/19/23 10:21	20

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH17B

Lab Sample ID: 890-4950-51

Date Collected: 07/14/23 12:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 12:10	07/20/23 06:59	1
<b>Toluene</b>	<b>0.00250</b>		0.00198	mg/Kg		07/19/23 12:10	07/20/23 06:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 12:10	07/20/23 06:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/19/23 12:10	07/20/23 06:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 12:10	07/20/23 06:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/23 12:10	07/20/23 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/19/23 12:10	07/20/23 06:59	1
1,4-Difluorobenzene (Surr)	70		70 - 130	07/19/23 12:10	07/20/23 06:59	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 15:41	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 15:41	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/24/23 17:37	07/30/23 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	07/24/23 17:37	07/30/23 15:41	1
o-Terphenyl	118		70 - 130	07/24/23 17:37	07/30/23 15:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>10600</b>		99.6	mg/Kg			07/19/23 10:26	20

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## Surrogate Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-30923-A-1-A MS	Matrix Spike	116	100
880-30923-A-1-B MSD	Matrix Spike Duplicate	129	95
880-30968-A-3-A MS	Matrix Spike	124	88
880-30968-A-3-B MSD	Matrix Spike Duplicate	114	96
890-4950-1	BH01	92	103
890-4950-1 MS	BH01	92	103
890-4950-1 MSD	BH01	93	101
890-4950-2	BH01A	86	119
890-4950-3	BH01B	107	111
890-4950-4	BH02	95	112
890-4950-5	BH02A	97	110
890-4950-6	BH02B	99	112
890-4950-7	BH03	103	113
890-4950-8	BH03A	116	115
890-4950-9	BH03B	98	110
890-4950-10	BH04	97	110
890-4950-11	BH04A	101	101
890-4950-12	BH04B	94	104
890-4950-13	BH05	110	105
890-4950-14	BH05A	105	116
890-4950-15	BH05B	100	113
890-4950-16	BH06	104	113
890-4950-17	BH06A	104	112
890-4950-18	BH06B	104	107
890-4950-19	BH07	111	113
890-4950-20	BH07A	104	110
890-4950-21	BH07B	77	94
890-4950-21 MS	BH07B	105	93
890-4950-21 MSD	BH07B	88	149 S1+
890-4950-22	BH08	87	98
890-4950-23	BH08A	90	104
890-4950-24	BH08B	91	98
890-4950-25	BH09	86	102
890-4950-26	BH09A	99	103
890-4950-27	BH09B	94	98
890-4950-28	BH10	99	96
890-4950-29	BH10A	93	104
890-4950-30	BH10B	97	104
890-4950-31	BH11	80	99
890-4950-32	BH11A	87	99
890-4950-33	BH11B	85	101
890-4950-34	BH12	94	101
890-4950-35	BH12A	94	102
890-4950-36	BH12B	89	107
890-4950-37	BH13	85	106
890-4950-38	BH13A	87	105
890-4950-39	BH13B	91	105
890-4950-40	BH14	81	104
890-4950-41	BH14A	92	99

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## Surrogate Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4950-42	BH14B	101	94
890-4950-43	BH15	99	94
890-4950-44	BH15A	98	93
890-4950-45	BH15B	97	96
890-4950-46	BH16	91	92
890-4950-47	BH16A	103	94
890-4950-48	BH17	103	91
890-4950-49	BH16B	98	91
890-4950-50	BH17A	92	98
890-4950-51	BH17B	92	70
LCS 880-57972/1-A	Lab Control Sample	95	105
LCS 880-57974/1-A	Lab Control Sample	98	92
LCS 880-58038/1-A	Lab Control Sample	126	98
LCS 880-58151/1-A	Lab Control Sample	98	96
LCSD 880-57972/2-A	Lab Control Sample Dup	92	98
LCSD 880-57974/2-A	Lab Control Sample Dup	92	96
LCSD 880-58038/2-A	Lab Control Sample Dup	122	94
LCSD 880-58151/2-A	Lab Control Sample Dup	105	98
MB 880-57971/5-B	Method Blank	73	92
MB 880-57972/5-A	Method Blank	81	95
MB 880-57974/5-A	Method Blank	104	130
MB 880-58038/5-A	Method Blank	75	82
MB 880-58149/5-A	Method Blank	87	91
MB 880-58151/5-A	Method Blank	97	112

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4950-1	BH01	131 S1+	113
890-4950-1 MS	BH01	123	96
890-4950-1 MSD	BH01	123	96
890-4950-2	BH01A	133 S1+	113
890-4950-3	BH01B	149 S1+	128
890-4950-4	BH02	139 S1+	121
890-4950-5	BH02A	120	105
890-4950-6	BH02B	124	109
890-4950-7	BH03	118	99
890-4950-8	BH03A	140 S1+	124
890-4950-9	BH03B	118	107
890-4950-10	BH04	117	108
890-4950-11	BH04A	145 S1+	127
890-4950-12	BH04B	144 S1+	124
890-4950-13	BH05	125	103
890-4950-14	BH05A	114	95

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## Surrogate Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4950-15	BH05B	125	106
890-4950-16	BH06	117	107
890-4950-17	BH06A	118	107
890-4950-18	BH06B	123	114
890-4950-19	BH07	105	107
890-4950-20	BH07A	120	109
890-4950-21	BH07B	134 S1+	116
890-4950-21 MS	BH07B	167 S1+	138 S1+
890-4950-21 MSD	BH07B	165 S1+	137 S1+
890-4950-22	BH08	131 S1+	122
890-4950-23	BH08A	120	111
890-4950-24	BH08B	123	115
890-4950-25	BH09	124	113
890-4950-26	BH09A	114	102
890-4950-27	BH09B	132 S1+	122
890-4950-28	BH10	127	112
890-4950-29	BH10A	204 S1+	186 S1+
890-4950-30	BH10B	127	119
890-4950-31	BH11	128	118
890-4950-32	BH11A	127	116
890-4950-33	BH11B	116	107
890-4950-34	BH12	124	115
890-4950-35	BH12A	118	111
890-4950-36	BH12B	185 S1+	168 S1+
890-4950-37	BH13	144 S1+	133 S1+
890-4950-38	BH13A	150 S1+	139 S1+
890-4950-39	BH13B	118	109
890-4950-40	BH14	128	120
890-4950-41	BH14A	142 S1+	132 S1+
890-4950-41 MS	BH14A	122	103
890-4950-41 MSD	BH14A	123	102
890-4950-42	BH14B	123	120
890-4950-43	BH15	129	122
890-4950-44	BH15A	144 S1+	133 S1+
890-4950-45	BH15B	123	115
890-4950-46	BH16	139 S1+	127
890-4950-47	BH16A	123	115
890-4950-48	BH17	132 S1+	125
890-4950-49	BH16B	125	118
890-4950-50	BH17A	116	110
890-4950-51	BH17B	124	118
LCS 880-58403/2-A	Lab Control Sample	117	107
LCS 880-58404/2-A	Lab Control Sample	108	101
LCS 880-58405/2-A	Lab Control Sample	114	116
LCSD 880-58403/3-A	Lab Control Sample Dup	93	81
LCSD 880-58404/3-A	Lab Control Sample Dup	101	90
LCSD 880-58405/3-A	Lab Control Sample Dup	114	119
MB 880-58403/1-A	Method Blank	160 S1+	134 S1+
MB 880-58404/1-A	Method Blank	161 S1+	148 S1+
MB 880-58405/1-A	Method Blank	163 S1+	155 S1+

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Surrogate Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Surrogate Legend

1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: MB 880-57971/5-B

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57971

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:07	07/19/23 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 08:07	07/19/23 12:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 08:07	07/19/23 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/19/23 08:07	07/19/23 12:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/19/23 08:07	07/19/23 12:32	1

Lab Sample ID: MB 880-57972/5-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57972

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 20:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 20:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 20:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/18/23 16:18	07/22/23 20:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:18	07/22/23 20:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/18/23 16:18	07/22/23 20:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	07/18/23 16:18	07/22/23 20:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/23 16:18	07/22/23 20:42	1

Lab Sample ID: LCS 880-57972/1-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1027		mg/Kg		103	70 - 130
Toluene	0.100	0.1038		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.09438		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09074		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-57972/2-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09089		mg/Kg		91	70 - 130	12	35

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: LCSD 880-57972/2-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09452		mg/Kg		95	70 - 130	9	35
Ethylbenzene	0.100	0.08494		mg/Kg		85	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1650		mg/Kg		83	70 - 130	10	35
o-Xylene	0.100	0.08391		mg/Kg		84	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-4950-1 MS

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 57972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0994	0.05525	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1 F2	0.0994	0.03989	F1	mg/Kg		40	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.0994	0.02730	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.05008	F1	mg/Kg		25	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0994	0.02834	F1	mg/Kg		29	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4950-1 MSD

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 57972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.07483		mg/Kg		75	70 - 130	30	35
Toluene	<0.00199	U F1 F2	0.0998	0.06628	F1 F2	mg/Kg		66	70 - 130	50	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.04693	F1 F2	mg/Kg		47	70 - 130	53	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.08815	F1 F2	mg/Kg		44	70 - 130	55	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.04696	F1 F2	mg/Kg		47	70 - 130	49	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-57974/5-A

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57974

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 14:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 14:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/18/23 16:31	07/23/23 14:04	1

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: MB 880-57974/5-A

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57974

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/18/23 16:31	07/23/23 14:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/18/23 16:31	07/23/23 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/23 16:31	07/23/23 14:04	1
1,4-Difluorobenzene (Surr)	130		70 - 130	07/18/23 16:31	07/23/23 14:04	1

Lab Sample ID: LCS 880-57974/1-A

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1090		mg/Kg		109	70 - 130
Toluene	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-57974/2-A

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1104		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.09678		mg/Kg		97	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130	16	35
o-Xylene	0.100	0.09683		mg/Kg		97	70 - 130	9	35

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

Lab Sample ID: 890-4950-21 MS

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: BH07B

Prep Type: Total/NA

Prep Batch: 57974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.0998	0.09302		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0998	0.08926		mg/Kg		89	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.08829		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1897		mg/Kg		95	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08967		mg/Kg		89	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: 890-4950-21 MS

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: BH07B

Prep Type: Total/NA

Prep Batch: 57974

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-4950-21 MSD

Matrix: Solid

Analysis Batch: 58285

Client Sample ID: BH07B

Prep Type: Total/NA

Prep Batch: 57974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.101	0.1509	F1 F2	mg/Kg		150	70 - 130	47	35
Toluene	<0.00199	U	0.101	0.07692		mg/Kg		76	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.101	0.06416	F1	mg/Kg		64	70 - 130	32	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1803		mg/Kg		89	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.09619		mg/Kg		95	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	149	S1+	70 - 130

Lab Sample ID: MB 880-58038/5-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58038

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 12:10	07/19/23 23:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 12:10	07/19/23 23:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 12:10	07/19/23 23:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 12:10	07/19/23 23:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 12:10	07/19/23 23:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 12:10	07/19/23 23:08	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	75		70 - 130	07/19/23 12:10	07/19/23 23:08	1		
1,4-Difluorobenzene (Surr)	82		70 - 130	07/19/23 12:10	07/19/23 23:08	1		

Lab Sample ID: LCS 880-58038/1-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09164		mg/Kg		92	70 - 130
Toluene	0.100	0.09342		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1114		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2365		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1216		mg/Kg		122	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: LCS 880-58038/1-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58038

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

Lab Sample ID: LCSD 880-58038/2-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58038

	LCS	LCS							%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.09375		mg/Kg		94	70 - 130	2	35		
Toluene	0.100	0.09222		mg/Kg		92	70 - 130	1	35		
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	1	35		
m-Xylene & p-Xylene	0.200	0.2359		mg/Kg		118	70 - 130	0	35		
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130	2	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-30923-A-1-A MS

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58038

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09054		mg/Kg		90	70 - 130		
Toluene	<0.00199	U	0.101	0.08930		mg/Kg		88	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.1043		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.2159		mg/Kg		107	70 - 130		
o-Xylene	<0.00199	U F1	0.101	0.1098		mg/Kg		109	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-30923-A-1-B MSD

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58038

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1072		mg/Kg		107	70 - 130	17	35
Toluene	<0.00199	U	0.100	0.1056		mg/Kg		105	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.100	0.1274		mg/Kg		127	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.2635	F1	mg/Kg		131	70 - 130	20	35
o-Xylene	<0.00199	U F1	0.100	0.1331	F1	mg/Kg		133	70 - 130	19	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: MB 880-58149/5-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58149

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:41	07/22/23 09:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 13:41	07/22/23 09:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 13:41	07/22/23 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/20/23 13:41	07/22/23 09:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/20/23 13:41	07/22/23 09:58	1

Lab Sample ID: MB 880-58151/5-A

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58151

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:55	07/22/23 10:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:55	07/22/23 10:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:55	07/22/23 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 13:55	07/22/23 10:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 13:55	07/22/23 10:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 13:55	07/22/23 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/20/23 13:55	07/22/23 10:55	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/20/23 13:55	07/22/23 10:55	1

Lab Sample ID: LCS 880-58151/1-A

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1198		mg/Kg		120	70 - 130
Toluene	0.100	0.1100		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2347		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-58151/2-A

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08046	*1	mg/Kg		80	70 - 130	39	35

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: LCSD 880-58151/2-A

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.06307	*- *1	mg/Kg		63	70 - 130	54	35
Ethylbenzene	0.100	0.05791	*- *1	mg/Kg		58	70 - 130	65	35
m-Xylene & p-Xylene	0.200	0.1105	*- *1	mg/Kg		55	70 - 130	72	35
o-Xylene	0.100	0.05644	*- *1	mg/Kg		56	70 - 130	63	35

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

Lab Sample ID: 880-30968-A-3-A MS

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U *1 F1	0.0994	0.1430	F1	mg/Kg		144	70 - 130
Toluene	0.00242	*- *1 F1	0.0994	0.1488	F1	mg/Kg		147	70 - 130
Ethylbenzene	0.00282	*- *1 F1	0.0994	0.1454	F1	mg/Kg		143	70 - 130
m-Xylene & p-Xylene	0.00541	*- *1 F1	0.199	0.2656	F1	mg/Kg		131	70 - 130
o-Xylene	0.00493	*- *1	0.0994	0.1193		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-30968-A-3-B MSD

Matrix: Solid

Analysis Batch: 58250

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *1 F1	0.0998	0.1273		mg/Kg		128	70 - 130	12	35
Toluene	0.00242	*- *1 F1	0.0998	0.1137		mg/Kg		112	70 - 130	27	35
Ethylbenzene	0.00282	*- *1 F1	0.0998	0.1262		mg/Kg		124	70 - 130	14	35
m-Xylene & p-Xylene	0.00541	*- *1 F1	0.200	0.2500		mg/Kg		123	70 - 130	6	35
o-Xylene	0.00493	*- *1	0.0998	0.1125		mg/Kg		108	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-58403/1-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58403

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:21	07/29/23 08:04	1

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: MB 880-58403/1-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58403

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:21	07/29/23 08:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:21	07/29/23 08:04	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	160	S1+	70 - 130			07/24/23 17:21	07/29/23 08:04	1
o-Terphenyl	134	S1+	70 - 130			07/24/23 17:21	07/29/23 08:04	1

Lab Sample ID: LCS 880-58403/2-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	975.5		mg/Kg		98	70 - 130
Surrogate		LCS	LCS				Limits
		%Recovery	Qualifier				
1-Chlorooctane		117					70 - 130
o-Terphenyl		107					70 - 130

Lab Sample ID: LCSD 880-58403/3-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	881.7		mg/Kg		88	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	804.1		mg/Kg		80	70 - 130	19	20
Surrogate		LCSD	LCSD				Limits		
		%Recovery	Qualifier						
1-Chlorooctane		93					70 - 130		
o-Terphenyl		81					70 - 130		

Lab Sample ID: 890-4950-1 MS

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 58403

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	915.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	73.4		1010	1210		mg/Kg		113	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	123		70 - 130						
o-Terphenyl	96		70 - 130						

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: 890-4950-1 MSD

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 58403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	924.2		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	73.4		1010	1227		mg/Kg		115	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: MB 880-58404/1-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58404

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:29	07/29/23 19:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			07/24/23 17:29	07/29/23 19:40	1
o-Terphenyl	148	S1+	70 - 130			07/24/23 17:29	07/29/23 19:40	1

Lab Sample ID: LCS 880-58404/2-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	941.0		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	949.1		mg/Kg		95	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: LCSD 880-58404/3-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58404

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1070		mg/Kg		107	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130	14	20

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: LCSD 880-58404/3-A

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58404

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-4950-21 MS

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: BH07B

Prep Type: Total/NA

Prep Batch: 58404

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	1226		mg/Kg		120	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.3	U F1	998	1805	F1	mg/Kg		179	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	167	S1+	70 - 130							
o-Terphenyl	138	S1+	70 - 130							

Lab Sample ID: 890-4950-21 MSD

Matrix: Solid

Analysis Batch: 58772

Client Sample ID: BH07B

Prep Type: Total/NA

Prep Batch: 58404

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	1207		mg/Kg		118	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<50.3	U F1	998	1792	F1	mg/Kg		178	70 - 130	1	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	165	S1+	70 - 130									
o-Terphenyl	137	S1+	70 - 130									

Lab Sample ID: MB 880-58405/1-A

Matrix: Solid

Analysis Batch: 58792

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58405

	MB	MB									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 08:16	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 08:16	1			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:37	07/30/23 08:16	1			
	MB	MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
1-Chlorooctane	163	S1+	70 - 130			07/24/23 17:37	07/30/23 08:16	1			
o-Terphenyl	155	S1+	70 - 130			07/24/23 17:37	07/30/23 08:16	1			

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: LCS 880-58405/2-A

Matrix: Solid

Analysis Batch: 58792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	973.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1043		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	114		70 - 130				
o-Terphenyl	116		70 - 130				

Lab Sample ID: LCSD 880-58405/3-A

Matrix: Solid

Analysis Batch: 58792

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	965.4		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: 890-4950-41 MS

Matrix: Solid

Analysis Batch: 58792

Client Sample ID: BH14A

Prep Type: Total/NA

Prep Batch: 58405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	865.6		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U	998	1257		mg/Kg		124	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-4950-41 MSD

Matrix: Solid

Analysis Batch: 58792

Client Sample ID: BH14A

Prep Type: Total/NA

Prep Batch: 58405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	863.9		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	1249		mg/Kg		123	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Lab Sample ID: 890-4950-41 MSD  
Matrix: Solid  
Analysis Batch: 58792

Client Sample ID: BH14A  
Prep Type: Total/NA  
Prep Batch: 58405

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	102		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57875/1-A  
Matrix: Solid  
Analysis Batch: 58007

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 08:12		1

Lab Sample ID: LCS 880-57875/2-A  
Matrix: Solid  
Analysis Batch: 58007

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	238.8		mg/Kg		96	90 - 110	

Lab Sample ID: LCSD 880-57875/3-A  
Matrix: Solid  
Analysis Batch: 58007

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

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	234.9		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-4950-46 MS  
Matrix: Solid  
Analysis Batch: 58007

Client Sample ID: BH16  
Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18400	F1	12400	28570	F1	mg/Kg		82	90 - 110	

Lab Sample ID: 890-4950-46 MSD  
Matrix: Solid  
Analysis Batch: 58007

Client Sample ID: BH16  
Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	18400	F1	12400	28280	F1	mg/Kg		80	90 - 110	1	20

Lab Sample ID: MB 880-57873/1-A  
Matrix: Solid  
Analysis Batch: 58008

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 08:38		1

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57873/2-A

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-57873/3-A

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-4950-1 MS

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	43900		12600	55910		mg/Kg		95	90 - 110

Lab Sample ID: 890-4950-1 MSD

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	43900		12600	55960		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4950-11 MS

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: BH04A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	41600		12600	54420		mg/Kg		102	90 - 110

Lab Sample ID: 890-4950-11 MSD

Matrix: Solid

Analysis Batch: 58008

Client Sample ID: BH04A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41600		12600	54440		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-57874/1-A

Matrix: Solid

Analysis Batch: 58010

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 09:17	1

Lab Sample ID: LCS 880-57874/2-A

Matrix: Solid

Analysis Batch: 58010

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.1		mg/Kg		96	90 - 110

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QC Sample Results

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-57874/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 58010											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.8		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-4950-21 MS				Client Sample ID: BH07B							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 58010											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	40600		12600	52320		mg/Kg		93	90 - 110		

Lab Sample ID: 890-4950-21 MSD				Client Sample ID: BH07B							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 58010											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	40600		12600	52130		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 890-4950-31 MS				Client Sample ID: BH11							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 58010											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29000		12500	41080		mg/Kg		97	90 - 110		

Lab Sample ID: 890-4950-31 MSD				Client Sample ID: BH11							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 58010											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29000		12500	41200		mg/Kg		98	90 - 110	0	20

## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC VOA

## Prep Batch: 57971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57971/5-B	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 57972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	5035	
890-4950-2	BH01A	Total/NA	Solid	5035	
890-4950-3	BH01B	Total/NA	Solid	5035	
890-4950-4	BH02	Total/NA	Solid	5035	
890-4950-5	BH02A	Total/NA	Solid	5035	
890-4950-6	BH02B	Total/NA	Solid	5035	
890-4950-7	BH03	Total/NA	Solid	5035	
890-4950-8	BH03A	Total/NA	Solid	5035	
890-4950-9	BH03B	Total/NA	Solid	5035	
890-4950-10	BH04	Total/NA	Solid	5035	
890-4950-11	BH04A	Total/NA	Solid	5035	
890-4950-12	BH04B	Total/NA	Solid	5035	
890-4950-13	BH05	Total/NA	Solid	5035	
890-4950-14	BH05A	Total/NA	Solid	5035	
890-4950-15	BH05B	Total/NA	Solid	5035	
890-4950-16	BH06	Total/NA	Solid	5035	
890-4950-17	BH06A	Total/NA	Solid	5035	
890-4950-18	BH06B	Total/NA	Solid	5035	
890-4950-19	BH07	Total/NA	Solid	5035	
890-4950-20	BH07A	Total/NA	Solid	5035	
MB 880-57972/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57972/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57972/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4950-1 MS	BH01	Total/NA	Solid	5035	
890-4950-1 MSD	BH01	Total/NA	Solid	5035	

## Prep Batch: 57974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-21	BH07B	Total/NA	Solid	5035	
890-4950-22	BH08	Total/NA	Solid	5035	
890-4950-23	BH08A	Total/NA	Solid	5035	
890-4950-24	BH08B	Total/NA	Solid	5035	
890-4950-25	BH09	Total/NA	Solid	5035	
890-4950-26	BH09A	Total/NA	Solid	5035	
890-4950-27	BH09B	Total/NA	Solid	5035	
890-4950-28	BH10	Total/NA	Solid	5035	
890-4950-29	BH10A	Total/NA	Solid	5035	
890-4950-30	BH10B	Total/NA	Solid	5035	
890-4950-31	BH11	Total/NA	Solid	5035	
890-4950-32	BH11A	Total/NA	Solid	5035	
890-4950-33	BH11B	Total/NA	Solid	5035	
890-4950-34	BH12	Total/NA	Solid	5035	
890-4950-35	BH12A	Total/NA	Solid	5035	
890-4950-36	BH12B	Total/NA	Solid	5035	
890-4950-37	BH13	Total/NA	Solid	5035	
890-4950-38	BH13A	Total/NA	Solid	5035	
890-4950-39	BH13B	Total/NA	Solid	5035	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC VOA (Continued)

## Prep Batch: 57974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-40	BH14	Total/NA	Solid	5035	
MB 880-57974/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57974/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57974/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4950-21 MS	BH07B	Total/NA	Solid	5035	
890-4950-21 MSD	BH07B	Total/NA	Solid	5035	

## Analysis Batch: 57991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-51	BH17B	Total/NA	Solid	8021B	58038
MB 880-57971/5-B	Method Blank	Total/NA	Solid	8021B	57971
MB 880-58038/5-A	Method Blank	Total/NA	Solid	8021B	58038
LCS 880-58038/1-A	Lab Control Sample	Total/NA	Solid	8021B	58038
LCSD 880-58038/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58038
880-30923-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58038
880-30923-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58038

## Prep Batch: 58038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-51	BH17B	Total/NA	Solid	5035	
MB 880-58038/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58038/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58038/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30923-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30923-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 58124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	Total BTEX	
890-4950-2	BH01A	Total/NA	Solid	Total BTEX	
890-4950-3	BH01B	Total/NA	Solid	Total BTEX	
890-4950-4	BH02	Total/NA	Solid	Total BTEX	
890-4950-5	BH02A	Total/NA	Solid	Total BTEX	
890-4950-6	BH02B	Total/NA	Solid	Total BTEX	
890-4950-7	BH03	Total/NA	Solid	Total BTEX	
890-4950-8	BH03A	Total/NA	Solid	Total BTEX	
890-4950-9	BH03B	Total/NA	Solid	Total BTEX	
890-4950-10	BH04	Total/NA	Solid	Total BTEX	
890-4950-11	BH04A	Total/NA	Solid	Total BTEX	
890-4950-12	BH04B	Total/NA	Solid	Total BTEX	
890-4950-13	BH05	Total/NA	Solid	Total BTEX	
890-4950-14	BH05A	Total/NA	Solid	Total BTEX	
890-4950-15	BH05B	Total/NA	Solid	Total BTEX	
890-4950-16	BH06	Total/NA	Solid	Total BTEX	
890-4950-17	BH06A	Total/NA	Solid	Total BTEX	
890-4950-18	BH06B	Total/NA	Solid	Total BTEX	
890-4950-19	BH07	Total/NA	Solid	Total BTEX	
890-4950-20	BH07A	Total/NA	Solid	Total BTEX	
890-4950-21	BH07B	Total/NA	Solid	Total BTEX	
890-4950-22	BH08	Total/NA	Solid	Total BTEX	
890-4950-23	BH08A	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC VOA (Continued)

## Analysis Batch: 58124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-24	BH08B	Total/NA	Solid	Total BTEX	
890-4950-25	BH09	Total/NA	Solid	Total BTEX	
890-4950-26	BH09A	Total/NA	Solid	Total BTEX	
890-4950-27	BH09B	Total/NA	Solid	Total BTEX	
890-4950-28	BH10	Total/NA	Solid	Total BTEX	
890-4950-29	BH10A	Total/NA	Solid	Total BTEX	
890-4950-30	BH10B	Total/NA	Solid	Total BTEX	
890-4950-31	BH11	Total/NA	Solid	Total BTEX	
890-4950-32	BH11A	Total/NA	Solid	Total BTEX	
890-4950-33	BH11B	Total/NA	Solid	Total BTEX	
890-4950-34	BH12	Total/NA	Solid	Total BTEX	
890-4950-35	BH12A	Total/NA	Solid	Total BTEX	
890-4950-36	BH12B	Total/NA	Solid	Total BTEX	
890-4950-37	BH13	Total/NA	Solid	Total BTEX	
890-4950-38	BH13A	Total/NA	Solid	Total BTEX	
890-4950-39	BH13B	Total/NA	Solid	Total BTEX	
890-4950-40	BH14	Total/NA	Solid	Total BTEX	
890-4950-41	BH14A	Total/NA	Solid	Total BTEX	
890-4950-42	BH14B	Total/NA	Solid	Total BTEX	
890-4950-43	BH15	Total/NA	Solid	Total BTEX	
890-4950-44	BH15A	Total/NA	Solid	Total BTEX	
890-4950-45	BH15B	Total/NA	Solid	Total BTEX	
890-4950-46	BH16	Total/NA	Solid	Total BTEX	
890-4950-47	BH16A	Total/NA	Solid	Total BTEX	
890-4950-48	BH17	Total/NA	Solid	Total BTEX	
890-4950-49	BH16B	Total/NA	Solid	Total BTEX	
890-4950-50	BH17A	Total/NA	Solid	Total BTEX	
890-4950-51	BH17B	Total/NA	Solid	Total BTEX	

## Prep Batch: 58149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58149/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 58151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Total/NA	Solid	5035	
890-4950-42	BH14B	Total/NA	Solid	5035	
890-4950-43	BH15	Total/NA	Solid	5035	
890-4950-44	BH15A	Total/NA	Solid	5035	
890-4950-45	BH15B	Total/NA	Solid	5035	
890-4950-46	BH16	Total/NA	Solid	5035	
890-4950-47	BH16A	Total/NA	Solid	5035	
890-4950-48	BH17	Total/NA	Solid	5035	
890-4950-49	BH16B	Total/NA	Solid	5035	
890-4950-50	BH17A	Total/NA	Solid	5035	
MB 880-58151/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58151/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58151/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30968-A-3-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30968-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC VOA

## Analysis Batch: 58250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Total/NA	Solid	8021B	58151
890-4950-42	BH14B	Total/NA	Solid	8021B	58151
890-4950-43	BH15	Total/NA	Solid	8021B	58151
890-4950-44	BH15A	Total/NA	Solid	8021B	58151
890-4950-45	BH15B	Total/NA	Solid	8021B	58151
890-4950-46	BH16	Total/NA	Solid	8021B	58151
890-4950-47	BH16A	Total/NA	Solid	8021B	58151
890-4950-48	BH17	Total/NA	Solid	8021B	58151
890-4950-49	BH16B	Total/NA	Solid	8021B	58151
890-4950-50	BH17A	Total/NA	Solid	8021B	58151
MB 880-58151/5-A	Method Blank	Total/NA	Solid	8021B	58151
LCS 880-58151/1-A	Lab Control Sample	Total/NA	Solid	8021B	58151
LCSD 880-58151/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58151
880-30968-A-3-A MS	Matrix Spike	Total/NA	Solid	8021B	58151
880-30968-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58151

## Analysis Batch: 58258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	8021B	57972
890-4950-2	BH01A	Total/NA	Solid	8021B	57972
890-4950-3	BH01B	Total/NA	Solid	8021B	57972
890-4950-4	BH02	Total/NA	Solid	8021B	57972
890-4950-5	BH02A	Total/NA	Solid	8021B	57972
890-4950-6	BH02B	Total/NA	Solid	8021B	57972
890-4950-7	BH03	Total/NA	Solid	8021B	57972
890-4950-8	BH03A	Total/NA	Solid	8021B	57972
890-4950-9	BH03B	Total/NA	Solid	8021B	57972
890-4950-10	BH04	Total/NA	Solid	8021B	57972
890-4950-11	BH04A	Total/NA	Solid	8021B	57972
890-4950-12	BH04B	Total/NA	Solid	8021B	57972
890-4950-13	BH05	Total/NA	Solid	8021B	57972
890-4950-14	BH05A	Total/NA	Solid	8021B	57972
890-4950-15	BH05B	Total/NA	Solid	8021B	57972
890-4950-16	BH06	Total/NA	Solid	8021B	57972
890-4950-17	BH06A	Total/NA	Solid	8021B	57972
890-4950-18	BH06B	Total/NA	Solid	8021B	57972
890-4950-19	BH07	Total/NA	Solid	8021B	57972
890-4950-20	BH07A	Total/NA	Solid	8021B	57972
MB 880-57972/5-A	Method Blank	Total/NA	Solid	8021B	57972
MB 880-58149/5-A	Method Blank	Total/NA	Solid	8021B	58149
LCS 880-57972/1-A	Lab Control Sample	Total/NA	Solid	8021B	57972
LCSD 880-57972/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57972
890-4950-1 MS	BH01	Total/NA	Solid	8021B	57972
890-4950-1 MSD	BH01	Total/NA	Solid	8021B	57972

## Analysis Batch: 58285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-21	BH07B	Total/NA	Solid	8021B	57974
890-4950-22	BH08	Total/NA	Solid	8021B	57974
890-4950-23	BH08A	Total/NA	Solid	8021B	57974
890-4950-24	BH08B	Total/NA	Solid	8021B	57974

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC VOA (Continued)

## Analysis Batch: 58285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-25	BH09	Total/NA	Solid	8021B	57974
890-4950-26	BH09A	Total/NA	Solid	8021B	57974
890-4950-27	BH09B	Total/NA	Solid	8021B	57974
890-4950-28	BH10	Total/NA	Solid	8021B	57974
890-4950-29	BH10A	Total/NA	Solid	8021B	57974
890-4950-30	BH10B	Total/NA	Solid	8021B	57974
890-4950-31	BH11	Total/NA	Solid	8021B	57974
890-4950-32	BH11A	Total/NA	Solid	8021B	57974
890-4950-33	BH11B	Total/NA	Solid	8021B	57974
890-4950-34	BH12	Total/NA	Solid	8021B	57974
890-4950-35	BH12A	Total/NA	Solid	8021B	57974
890-4950-36	BH12B	Total/NA	Solid	8021B	57974
890-4950-37	BH13	Total/NA	Solid	8021B	57974
890-4950-38	BH13A	Total/NA	Solid	8021B	57974
890-4950-39	BH13B	Total/NA	Solid	8021B	57974
890-4950-40	BH14	Total/NA	Solid	8021B	57974
MB 880-57974/5-A	Method Blank	Total/NA	Solid	8021B	57974
LCS 880-57974/1-A	Lab Control Sample	Total/NA	Solid	8021B	57974
LCSD 880-57974/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57974
890-4950-21 MS	BH07B	Total/NA	Solid	8021B	57974
890-4950-21 MSD	BH07B	Total/NA	Solid	8021B	57974

## GC Semi VOA

## Prep Batch: 58403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	8015NM Prep	
890-4950-2	BH01A	Total/NA	Solid	8015NM Prep	
890-4950-3	BH01B	Total/NA	Solid	8015NM Prep	
890-4950-4	BH02	Total/NA	Solid	8015NM Prep	
890-4950-5	BH02A	Total/NA	Solid	8015NM Prep	
890-4950-6	BH02B	Total/NA	Solid	8015NM Prep	
890-4950-7	BH03	Total/NA	Solid	8015NM Prep	
890-4950-8	BH03A	Total/NA	Solid	8015NM Prep	
890-4950-9	BH03B	Total/NA	Solid	8015NM Prep	
890-4950-10	BH04	Total/NA	Solid	8015NM Prep	
890-4950-11	BH04A	Total/NA	Solid	8015NM Prep	
890-4950-12	BH04B	Total/NA	Solid	8015NM Prep	
890-4950-13	BH05	Total/NA	Solid	8015NM Prep	
890-4950-14	BH05A	Total/NA	Solid	8015NM Prep	
890-4950-15	BH05B	Total/NA	Solid	8015NM Prep	
890-4950-16	BH06	Total/NA	Solid	8015NM Prep	
890-4950-17	BH06A	Total/NA	Solid	8015NM Prep	
890-4950-18	BH06B	Total/NA	Solid	8015NM Prep	
890-4950-19	BH07	Total/NA	Solid	8015NM Prep	
890-4950-20	BH07A	Total/NA	Solid	8015NM Prep	
MB 880-58403/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58403/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4950-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-4950-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC Semi VOA

## Prep Batch: 58404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-21	BH07B	Total/NA	Solid	8015NM Prep	
890-4950-22	BH08	Total/NA	Solid	8015NM Prep	
890-4950-23	BH08A	Total/NA	Solid	8015NM Prep	
890-4950-24	BH08B	Total/NA	Solid	8015NM Prep	
890-4950-25	BH09	Total/NA	Solid	8015NM Prep	
890-4950-26	BH09A	Total/NA	Solid	8015NM Prep	
890-4950-27	BH09B	Total/NA	Solid	8015NM Prep	
890-4950-28	BH10	Total/NA	Solid	8015NM Prep	
890-4950-29	BH10A	Total/NA	Solid	8015NM Prep	
890-4950-30	BH10B	Total/NA	Solid	8015NM Prep	
890-4950-31	BH11	Total/NA	Solid	8015NM Prep	
890-4950-32	BH11A	Total/NA	Solid	8015NM Prep	
890-4950-33	BH11B	Total/NA	Solid	8015NM Prep	
890-4950-34	BH12	Total/NA	Solid	8015NM Prep	
890-4950-35	BH12A	Total/NA	Solid	8015NM Prep	
890-4950-36	BH12B	Total/NA	Solid	8015NM Prep	
890-4950-37	BH13	Total/NA	Solid	8015NM Prep	
890-4950-38	BH13A	Total/NA	Solid	8015NM Prep	
890-4950-39	BH13B	Total/NA	Solid	8015NM Prep	
890-4950-40	BH14	Total/NA	Solid	8015NM Prep	
MB 880-58404/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58404/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4950-21 MS	BH07B	Total/NA	Solid	8015NM Prep	
890-4950-21 MSD	BH07B	Total/NA	Solid	8015NM Prep	

## Prep Batch: 58405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Total/NA	Solid	8015NM Prep	
890-4950-42	BH14B	Total/NA	Solid	8015NM Prep	
890-4950-43	BH15	Total/NA	Solid	8015NM Prep	
890-4950-44	BH15A	Total/NA	Solid	8015NM Prep	
890-4950-45	BH15B	Total/NA	Solid	8015NM Prep	
890-4950-46	BH16	Total/NA	Solid	8015NM Prep	
890-4950-47	BH16A	Total/NA	Solid	8015NM Prep	
890-4950-48	BH17	Total/NA	Solid	8015NM Prep	
890-4950-49	BH16B	Total/NA	Solid	8015NM Prep	
890-4950-50	BH17A	Total/NA	Solid	8015NM Prep	
890-4950-51	BH17B	Total/NA	Solid	8015NM Prep	
MB 880-58405/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58405/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4950-41 MS	BH14A	Total/NA	Solid	8015NM Prep	
890-4950-41 MSD	BH14A	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 58772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	8015B NM	58403
890-4950-2	BH01A	Total/NA	Solid	8015B NM	58403
890-4950-3	BH01B	Total/NA	Solid	8015B NM	58403
890-4950-4	BH02	Total/NA	Solid	8015B NM	58403

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC Semi VOA (Continued)

## Analysis Batch: 58772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-5	BH02A	Total/NA	Solid	8015B NM	58403
890-4950-6	BH02B	Total/NA	Solid	8015B NM	58403
890-4950-7	BH03	Total/NA	Solid	8015B NM	58403
890-4950-8	BH03A	Total/NA	Solid	8015B NM	58403
890-4950-9	BH03B	Total/NA	Solid	8015B NM	58403
890-4950-10	BH04	Total/NA	Solid	8015B NM	58403
890-4950-11	BH04A	Total/NA	Solid	8015B NM	58403
890-4950-12	BH04B	Total/NA	Solid	8015B NM	58403
890-4950-13	BH05	Total/NA	Solid	8015B NM	58403
890-4950-14	BH05A	Total/NA	Solid	8015B NM	58403
890-4950-15	BH05B	Total/NA	Solid	8015B NM	58403
890-4950-16	BH06	Total/NA	Solid	8015B NM	58403
890-4950-17	BH06A	Total/NA	Solid	8015B NM	58403
890-4950-18	BH06B	Total/NA	Solid	8015B NM	58403
890-4950-19	BH07	Total/NA	Solid	8015B NM	58403
890-4950-20	BH07A	Total/NA	Solid	8015B NM	58403
890-4950-21	BH07B	Total/NA	Solid	8015B NM	58404
890-4950-22	BH08	Total/NA	Solid	8015B NM	58404
890-4950-23	BH08A	Total/NA	Solid	8015B NM	58404
890-4950-24	BH08B	Total/NA	Solid	8015B NM	58404
890-4950-25	BH09	Total/NA	Solid	8015B NM	58404
890-4950-26	BH09A	Total/NA	Solid	8015B NM	58404
890-4950-27	BH09B	Total/NA	Solid	8015B NM	58404
890-4950-28	BH10	Total/NA	Solid	8015B NM	58404
890-4950-29	BH10A	Total/NA	Solid	8015B NM	58404
890-4950-30	BH10B	Total/NA	Solid	8015B NM	58404
890-4950-31	BH11	Total/NA	Solid	8015B NM	58404
890-4950-32	BH11A	Total/NA	Solid	8015B NM	58404
890-4950-33	BH11B	Total/NA	Solid	8015B NM	58404
890-4950-34	BH12	Total/NA	Solid	8015B NM	58404
890-4950-35	BH12A	Total/NA	Solid	8015B NM	58404
890-4950-36	BH12B	Total/NA	Solid	8015B NM	58404
890-4950-37	BH13	Total/NA	Solid	8015B NM	58404
890-4950-38	BH13A	Total/NA	Solid	8015B NM	58404
890-4950-39	BH13B	Total/NA	Solid	8015B NM	58404
890-4950-40	BH14	Total/NA	Solid	8015B NM	58404
MB 880-58403/1-A	Method Blank	Total/NA	Solid	8015B NM	58403
MB 880-58404/1-A	Method Blank	Total/NA	Solid	8015B NM	58404
LCS 880-58403/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58403
LCS 880-58404/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58404
LCSD 880-58403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58403
LCSD 880-58404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58404
890-4950-1 MS	BH01	Total/NA	Solid	8015B NM	58403
890-4950-1 MSD	BH01	Total/NA	Solid	8015B NM	58403
890-4950-21 MS	BH07B	Total/NA	Solid	8015B NM	58404
890-4950-21 MSD	BH07B	Total/NA	Solid	8015B NM	58404

## Analysis Batch: 58792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Total/NA	Solid	8015B NM	58405
890-4950-42	BH14B	Total/NA	Solid	8015B NM	58405

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC Semi VOA (Continued)

## Analysis Batch: 58792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-43	BH15	Total/NA	Solid	8015B NM	58405
890-4950-44	BH15A	Total/NA	Solid	8015B NM	58405
890-4950-45	BH15B	Total/NA	Solid	8015B NM	58405
890-4950-46	BH16	Total/NA	Solid	8015B NM	58405
890-4950-47	BH16A	Total/NA	Solid	8015B NM	58405
890-4950-48	BH17	Total/NA	Solid	8015B NM	58405
890-4950-49	BH16B	Total/NA	Solid	8015B NM	58405
890-4950-50	BH17A	Total/NA	Solid	8015B NM	58405
890-4950-51	BH17B	Total/NA	Solid	8015B NM	58405
MB 880-58405/1-A	Method Blank	Total/NA	Solid	8015B NM	58405
LCS 880-58405/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58405
LCSD 880-58405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58405
890-4950-41 MS	BH14A	Total/NA	Solid	8015B NM	58405
890-4950-41 MSD	BH14A	Total/NA	Solid	8015B NM	58405

## Analysis Batch: 58909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Total/NA	Solid	8015 NM	
890-4950-2	BH01A	Total/NA	Solid	8015 NM	
890-4950-3	BH01B	Total/NA	Solid	8015 NM	
890-4950-4	BH02	Total/NA	Solid	8015 NM	
890-4950-5	BH02A	Total/NA	Solid	8015 NM	
890-4950-6	BH02B	Total/NA	Solid	8015 NM	
890-4950-7	BH03	Total/NA	Solid	8015 NM	
890-4950-8	BH03A	Total/NA	Solid	8015 NM	
890-4950-9	BH03B	Total/NA	Solid	8015 NM	
890-4950-10	BH04	Total/NA	Solid	8015 NM	
890-4950-11	BH04A	Total/NA	Solid	8015 NM	
890-4950-12	BH04B	Total/NA	Solid	8015 NM	
890-4950-13	BH05	Total/NA	Solid	8015 NM	
890-4950-14	BH05A	Total/NA	Solid	8015 NM	
890-4950-15	BH05B	Total/NA	Solid	8015 NM	
890-4950-16	BH06	Total/NA	Solid	8015 NM	
890-4950-17	BH06A	Total/NA	Solid	8015 NM	
890-4950-18	BH06B	Total/NA	Solid	8015 NM	
890-4950-19	BH07	Total/NA	Solid	8015 NM	
890-4950-20	BH07A	Total/NA	Solid	8015 NM	
890-4950-21	BH07B	Total/NA	Solid	8015 NM	
890-4950-22	BH08	Total/NA	Solid	8015 NM	
890-4950-23	BH08A	Total/NA	Solid	8015 NM	
890-4950-24	BH08B	Total/NA	Solid	8015 NM	
890-4950-25	BH09	Total/NA	Solid	8015 NM	
890-4950-26	BH09A	Total/NA	Solid	8015 NM	
890-4950-27	BH09B	Total/NA	Solid	8015 NM	
890-4950-28	BH10	Total/NA	Solid	8015 NM	
890-4950-29	BH10A	Total/NA	Solid	8015 NM	
890-4950-30	BH10B	Total/NA	Solid	8015 NM	
890-4950-31	BH11	Total/NA	Solid	8015 NM	
890-4950-32	BH11A	Total/NA	Solid	8015 NM	
890-4950-33	BH11B	Total/NA	Solid	8015 NM	
890-4950-34	BH12	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## GC Semi VOA (Continued)

## Analysis Batch: 58909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-35	BH12A	Total/NA	Solid	8015 NM	
890-4950-36	BH12B	Total/NA	Solid	8015 NM	
890-4950-37	BH13	Total/NA	Solid	8015 NM	
890-4950-38	BH13A	Total/NA	Solid	8015 NM	
890-4950-39	BH13B	Total/NA	Solid	8015 NM	
890-4950-40	BH14	Total/NA	Solid	8015 NM	
890-4950-41	BH14A	Total/NA	Solid	8015 NM	
890-4950-42	BH14B	Total/NA	Solid	8015 NM	
890-4950-43	BH15	Total/NA	Solid	8015 NM	
890-4950-44	BH15A	Total/NA	Solid	8015 NM	
890-4950-45	BH15B	Total/NA	Solid	8015 NM	
890-4950-46	BH16	Total/NA	Solid	8015 NM	
890-4950-47	BH16A	Total/NA	Solid	8015 NM	
890-4950-48	BH17	Total/NA	Solid	8015 NM	
890-4950-49	BH16B	Total/NA	Solid	8015 NM	
890-4950-50	BH17A	Total/NA	Solid	8015 NM	
890-4950-51	BH17B	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 57873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Soluble	Solid	DI Leach	
890-4950-2	BH01A	Soluble	Solid	DI Leach	
890-4950-3	BH01B	Soluble	Solid	DI Leach	
890-4950-4	BH02	Soluble	Solid	DI Leach	
890-4950-5	BH02A	Soluble	Solid	DI Leach	
890-4950-6	BH02B	Soluble	Solid	DI Leach	
890-4950-7	BH03	Soluble	Solid	DI Leach	
890-4950-8	BH03A	Soluble	Solid	DI Leach	
890-4950-9	BH03B	Soluble	Solid	DI Leach	
890-4950-10	BH04	Soluble	Solid	DI Leach	
890-4950-11	BH04A	Soluble	Solid	DI Leach	
890-4950-12	BH04B	Soluble	Solid	DI Leach	
890-4950-13	BH05	Soluble	Solid	DI Leach	
890-4950-14	BH05A	Soluble	Solid	DI Leach	
890-4950-15	BH05B	Soluble	Solid	DI Leach	
890-4950-16	BH06	Soluble	Solid	DI Leach	
890-4950-17	BH06A	Soluble	Solid	DI Leach	
890-4950-18	BH06B	Soluble	Solid	DI Leach	
890-4950-19	BH07	Soluble	Solid	DI Leach	
890-4950-20	BH07A	Soluble	Solid	DI Leach	
MB 880-57873/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57873/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57873/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4950-1 MS	BH01	Soluble	Solid	DI Leach	
890-4950-1 MSD	BH01	Soluble	Solid	DI Leach	
890-4950-11 MS	BH04A	Soluble	Solid	DI Leach	
890-4950-11 MSD	BH04A	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## HPLC/IC

## Leach Batch: 57874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-21	BH07B	Soluble	Solid	DI Leach	
890-4950-22	BH08	Soluble	Solid	DI Leach	
890-4950-23	BH08A	Soluble	Solid	DI Leach	
890-4950-24	BH08B	Soluble	Solid	DI Leach	
890-4950-25	BH09	Soluble	Solid	DI Leach	
890-4950-26	BH09A	Soluble	Solid	DI Leach	
890-4950-27	BH09B	Soluble	Solid	DI Leach	
890-4950-28	BH10	Soluble	Solid	DI Leach	
890-4950-29	BH10A	Soluble	Solid	DI Leach	
890-4950-30	BH10B	Soluble	Solid	DI Leach	
890-4950-31	BH11	Soluble	Solid	DI Leach	
890-4950-32	BH11A	Soluble	Solid	DI Leach	
890-4950-33	BH11B	Soluble	Solid	DI Leach	
890-4950-34	BH12	Soluble	Solid	DI Leach	
890-4950-35	BH12A	Soluble	Solid	DI Leach	
890-4950-36	BH12B	Soluble	Solid	DI Leach	
890-4950-37	BH13	Soluble	Solid	DI Leach	
890-4950-38	BH13A	Soluble	Solid	DI Leach	
890-4950-39	BH13B	Soluble	Solid	DI Leach	
890-4950-40	BH14	Soluble	Solid	DI Leach	
MB 880-57874/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57874/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57874/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4950-21 MS	BH07B	Soluble	Solid	DI Leach	
890-4950-21 MSD	BH07B	Soluble	Solid	DI Leach	
890-4950-31 MS	BH11	Soluble	Solid	DI Leach	
890-4950-31 MSD	BH11	Soluble	Solid	DI Leach	

## Leach Batch: 57875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Soluble	Solid	DI Leach	
890-4950-42	BH14B	Soluble	Solid	DI Leach	
890-4950-43	BH15	Soluble	Solid	DI Leach	
890-4950-44	BH15A	Soluble	Solid	DI Leach	
890-4950-45	BH15B	Soluble	Solid	DI Leach	
890-4950-46	BH16	Soluble	Solid	DI Leach	
890-4950-47	BH16A	Soluble	Solid	DI Leach	
890-4950-48	BH17	Soluble	Solid	DI Leach	
890-4950-49	BH16B	Soluble	Solid	DI Leach	
890-4950-50	BH17A	Soluble	Solid	DI Leach	
890-4950-51	BH17B	Soluble	Solid	DI Leach	
MB 880-57875/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57875/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57875/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4950-46 MS	BH16	Soluble	Solid	DI Leach	
890-4950-46 MSD	BH16	Soluble	Solid	DI Leach	

## Analysis Batch: 58007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-41	BH14A	Soluble	Solid	300.0	57875
890-4950-42	BH14B	Soluble	Solid	300.0	57875

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## QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

## HPLC/IC (Continued)

## Analysis Batch: 58007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-43	BH15	Soluble	Solid	300.0	57875
890-4950-44	BH15A	Soluble	Solid	300.0	57875
890-4950-45	BH15B	Soluble	Solid	300.0	57875
890-4950-46	BH16	Soluble	Solid	300.0	57875
890-4950-47	BH16A	Soluble	Solid	300.0	57875
890-4950-48	BH17	Soluble	Solid	300.0	57875
890-4950-49	BH16B	Soluble	Solid	300.0	57875
890-4950-50	BH17A	Soluble	Solid	300.0	57875
890-4950-51	BH17B	Soluble	Solid	300.0	57875
MB 880-57875/1-A	Method Blank	Soluble	Solid	300.0	57875
LCS 880-57875/2-A	Lab Control Sample	Soluble	Solid	300.0	57875
LCSD 880-57875/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57875
890-4950-46 MS	BH16	Soluble	Solid	300.0	57875
890-4950-46 MSD	BH16	Soluble	Solid	300.0	57875

## Analysis Batch: 58008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-1	BH01	Soluble	Solid	300.0	57873
890-4950-2	BH01A	Soluble	Solid	300.0	57873
890-4950-3	BH01B	Soluble	Solid	300.0	57873
890-4950-4	BH02	Soluble	Solid	300.0	57873
890-4950-5	BH02A	Soluble	Solid	300.0	57873
890-4950-6	BH02B	Soluble	Solid	300.0	57873
890-4950-7	BH03	Soluble	Solid	300.0	57873
890-4950-8	BH03A	Soluble	Solid	300.0	57873
890-4950-9	BH03B	Soluble	Solid	300.0	57873
890-4950-10	BH04	Soluble	Solid	300.0	57873
890-4950-11	BH04A	Soluble	Solid	300.0	57873
890-4950-12	BH04B	Soluble	Solid	300.0	57873
890-4950-13	BH05	Soluble	Solid	300.0	57873
890-4950-14	BH05A	Soluble	Solid	300.0	57873
890-4950-15	BH05B	Soluble	Solid	300.0	57873
890-4950-16	BH06	Soluble	Solid	300.0	57873
890-4950-17	BH06A	Soluble	Solid	300.0	57873
890-4950-18	BH06B	Soluble	Solid	300.0	57873
890-4950-19	BH07	Soluble	Solid	300.0	57873
890-4950-20	BH07A	Soluble	Solid	300.0	57873
MB 880-57873/1-A	Method Blank	Soluble	Solid	300.0	57873
LCS 880-57873/2-A	Lab Control Sample	Soluble	Solid	300.0	57873
LCSD 880-57873/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57873
890-4950-1 MS	BH01	Soluble	Solid	300.0	57873
890-4950-1 MSD	BH01	Soluble	Solid	300.0	57873
890-4950-11 MS	BH04A	Soluble	Solid	300.0	57873
890-4950-11 MSD	BH04A	Soluble	Solid	300.0	57873

## Analysis Batch: 58010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-21	BH07B	Soluble	Solid	300.0	57874
890-4950-22	BH08	Soluble	Solid	300.0	57874
890-4950-23	BH08A	Soluble	Solid	300.0	57874
890-4950-24	BH08B	Soluble	Solid	300.0	57874

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QC Association Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

HPLC/IC (Continued)

Analysis Batch: 58010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4950-25	BH09	Soluble	Solid	300.0	57874
890-4950-26	BH09A	Soluble	Solid	300.0	57874
890-4950-27	BH09B	Soluble	Solid	300.0	57874
890-4950-28	BH10	Soluble	Solid	300.0	57874
890-4950-29	BH10A	Soluble	Solid	300.0	57874
890-4950-30	BH10B	Soluble	Solid	300.0	57874
890-4950-31	BH11	Soluble	Solid	300.0	57874
890-4950-32	BH11A	Soluble	Solid	300.0	57874
890-4950-33	BH11B	Soluble	Solid	300.0	57874
890-4950-34	BH12	Soluble	Solid	300.0	57874
890-4950-35	BH12A	Soluble	Solid	300.0	57874
890-4950-36	BH12B	Soluble	Solid	300.0	57874
890-4950-37	BH13	Soluble	Solid	300.0	57874
890-4950-38	BH13A	Soluble	Solid	300.0	57874
890-4950-39	BH13B	Soluble	Solid	300.0	57874
890-4950-40	BH14	Soluble	Solid	300.0	57874
MB 880-57874/1-A	Method Blank	Soluble	Solid	300.0	57874
LCS 880-57874/2-A	Lab Control Sample	Soluble	Solid	300.0	57874
LCSD 880-57874/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57874
890-4950-21 MS	BH07B	Soluble	Solid	300.0	57874
890-4950-21 MSD	BH07B	Soluble	Solid	300.0	57874
890-4950-31 MS	BH11	Soluble	Solid	300.0	57874
890-4950-31 MSD	BH11	Soluble	Solid	300.0	57874

Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH01  
Date Collected: 07/14/23 08:50  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 21:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 10:54	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 08:53	CH	EET MID

Client Sample ID: BH01A  
Date Collected: 07/14/23 08:55  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 21:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 12:00	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:08	CH	EET MID

Client Sample ID: BH01B  
Date Collected: 07/14/23 09:00  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 21:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 12:21	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:13	CH	EET MID

Client Sample ID: BH02  
Date Collected: 07/14/23 09:05  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 22:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH02

Lab Sample ID: 890-4950-4

Date Collected: 07/14/23 09:05

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 12:43	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:18	CH	EET MID

Client Sample ID: BH02A

Lab Sample ID: 890-4950-5

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 22:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 13:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:23	CH	EET MID

Client Sample ID: BH02B

Lab Sample ID: 890-4950-6

Date Collected: 07/14/23 09:15

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 22:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 13:28	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:38	CH	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-4950-7

Date Collected: 07/14/23 09:20

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 23:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 13:50	AJ	EET MID

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Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH03  
Date Collected: 07/14/23 09:20  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-7  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:43	CH	EET MID

Client Sample ID: BH03A  
Date Collected: 07/14/23 09:25  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-8  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 23:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 14:12	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:48	CH	EET MID

Client Sample ID: BH03B  
Date Collected: 07/14/23 09:30  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-9  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 23:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 14:34	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:53	CH	EET MID

Client Sample ID: BH04  
Date Collected: 07/14/23 09:35  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-10  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 00:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 14:56	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 09:58	CH	EET MID

Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH04A  
Date Collected: 07/14/23 09:40  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-11  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 01:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 15:40	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:03	CH	EET MID

Client Sample ID: BH04B  
Date Collected: 07/14/23 09:45  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-12  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 01:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 16:02	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:18	CH	EET MID

Client Sample ID: BH05  
Date Collected: 07/14/23 09:50  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-13  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 02:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 16:24	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:23	CH	EET MID

Client Sample ID: BH05A  
Date Collected: 07/14/23 09:55  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-14  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 02:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH05A

Lab Sample ID: 890-4950-14

Date Collected: 07/14/23 09:55

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 16:47	AJ	EET MID
Soluble	Leach	DI Leach			5.98 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:38	CH	EET MID

Client Sample ID: BH05B

Lab Sample ID: 890-4950-15

Date Collected: 07/14/23 10:00

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 02:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 17:08	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:43	CH	EET MID

Client Sample ID: BH06

Lab Sample ID: 890-4950-16

Date Collected: 07/14/23 10:05

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 03:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 17:30	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:48	CH	EET MID

Client Sample ID: BH06A

Lab Sample ID: 890-4950-17

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 03:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 17:52	AJ	EET MID

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Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH06A  
Date Collected: 07/14/23 10:10  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-17  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:53	CH	EET MID

Client Sample ID: BH06B  
Date Collected: 07/14/23 10:15  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-18  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 03:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 18:14	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 10:58	CH	EET MID

Client Sample ID: BH07  
Date Collected: 07/14/23 10:20  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-19  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 04:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 18:36	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 11:03	CH	EET MID

Client Sample ID: BH07A  
Date Collected: 07/14/23 10:25  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-20  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57972	07/18/23 16:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 04:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58403	07/24/23 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 18:57	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57873	07/17/23 14:56	KS	EET MID
Soluble	Analysis	300.0		50			58008	07/19/23 11:08	CH	EET MID



Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

**Client Sample ID: BH07B**  
**Date Collected: 07/14/23 10:30**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-21**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 14:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 20:45	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 09:36	CH	EET MID

**Client Sample ID: BH08**  
**Date Collected: 07/14/23 10:35**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-22**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 14:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 21:49	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 09:54	CH	EET MID

**Client Sample ID: BH08A**  
**Date Collected: 07/14/23 10:40**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-23**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 15:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 22:10	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:00	CH	EET MID

**Client Sample ID: BH08B**  
**Date Collected: 07/14/23 13:00**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-24**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 15:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH08B

Lab Sample ID: 890-4950-24

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 22:31	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:06	CH	EET MID

Client Sample ID: BH09

Lab Sample ID: 890-4950-25

Date Collected: 07/14/23 10:45

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 15:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 22:53	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:13	CH	EET MID

Client Sample ID: BH09A

Lab Sample ID: 890-4950-26

Date Collected: 07/14/23 10:50

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 16:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 23:14	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:31	CH	EET MID

Client Sample ID: BH09B

Lab Sample ID: 890-4950-27

Date Collected: 07/14/23 10:55

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 16:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 23:35	AJ	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

**Client Sample ID: BH09B****Lab Sample ID: 890-4950-27****Date Collected: 07/14/23 10:55****Matrix: Solid****Date Received: 07/14/23 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:37	CH	EET MID

**Client Sample ID: BH10****Lab Sample ID: 890-4950-28****Date Collected: 07/14/23 11:00****Matrix: Solid****Date Received: 07/14/23 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 16:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/29/23 23:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:43	CH	EET MID

**Client Sample ID: BH10A****Lab Sample ID: 890-4950-29****Date Collected: 07/14/23 11:05****Matrix: Solid****Date Received: 07/14/23 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 17:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 00:17	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:50	CH	EET MID

**Client Sample ID: BH10B****Lab Sample ID: 890-4950-30****Date Collected: 07/14/23 11:10****Matrix: Solid****Date Received: 07/14/23 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 17:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 00:39	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 10:56	CH	EET MID

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Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH11  
Date Collected: 07/14/23 11:15  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-31  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 19:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 01:21	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:02	CH	EET MID

Client Sample ID: BH11A  
Date Collected: 07/14/23 11:20  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-32  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 19:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 01:42	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:20	CH	EET MID

Client Sample ID: BH11B  
Date Collected: 07/14/23 11:25  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-33  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 20:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 02:03	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:26	CH	EET MID

Client Sample ID: BH12  
Date Collected: 07/14/23 11:30  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-34  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 20:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH12

Lab Sample ID: 890-4950-34

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 02:25	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:45	CH	EET MID

Client Sample ID: BH12A

Lab Sample ID: 890-4950-35

Date Collected: 07/14/23 11:35

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 20:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 02:46	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:51	CH	EET MID

Client Sample ID: BH12B

Lab Sample ID: 890-4950-36

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 21:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 03:07	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 11:57	CH	EET MID

Client Sample ID: BH13

Lab Sample ID: 890-4950-37

Date Collected: 07/14/23 11:45

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 21:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 03:28	AJ	EET MID

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Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

**Client Sample ID: BH13**  
**Date Collected: 07/14/23 11:45**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-37**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 12:03	CH	EET MID

**Client Sample ID: BH13A**  
**Date Collected: 07/14/23 11:50**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-38**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 21:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 03:49	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 12:09	CH	EET MID

**Client Sample ID: BH13B**  
**Date Collected: 07/14/23 11:55**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-39**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 22:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 04:10	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 12:16	CH	EET MID

**Client Sample ID: BH14**  
**Date Collected: 07/14/23 12:00**  
**Date Received: 07/14/23 14:35**

**Lab Sample ID: 890-4950-40**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57974	07/18/23 16:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/23/23 22:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58404	07/24/23 17:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58772	07/30/23 04:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57874	07/17/23 14:58	KS	EET MID
Soluble	Analysis	300.0		50			58010	07/19/23 12:22	CH	EET MID

Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH14A  
Date Collected: 07/14/23 12:05  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-41  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 12:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 10:53	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		50			58007	07/19/23 09:14	CH	EET MID

Client Sample ID: BH14B  
Date Collected: 07/14/23 12:10  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-42  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 13:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 11:59	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		50			58007	07/19/23 09:19	CH	EET MID

Client Sample ID: BH15  
Date Collected: 07/14/23 12:15  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-43  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 13:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 12:21	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 09:24	CH	EET MID

Client Sample ID: BH15A  
Date Collected: 07/14/23 12:20  
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-44  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 13:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID

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## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH15A

Lab Sample ID: 890-4950-44

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 12:43	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 09:29	CH	EET MID

Client Sample ID: BH15B

Lab Sample ID: 890-4950-45

Date Collected: 07/14/23 12:25

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 14:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 13:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		50			58007	07/19/23 09:35	CH	EET MID

Client Sample ID: BH16

Lab Sample ID: 890-4950-46

Date Collected: 07/14/23 12:30

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 16:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 13:27	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		50			58007	07/19/23 09:40	CH	EET MID

Client Sample ID: BH16A

Lab Sample ID: 890-4950-47

Date Collected: 07/14/23 12:35

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 16:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 13:49	AJ	EET MID

Eurofins Carlsbad



## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH16A

Lab Sample ID: 890-4950-47

Date Collected: 07/14/23 12:35

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		50			58007	07/19/23 09:55	CH	EET MID

Client Sample ID: BH17

Lab Sample ID: 890-4950-48

Date Collected: 07/14/23 12:40

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 17:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 14:11	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 10:00	CH	EET MID

Client Sample ID: BH16B

Lab Sample ID: 890-4950-49

Date Collected: 07/14/23 12:45

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 17:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 14:33	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 10:16	CH	EET MID

Client Sample ID: BH17A

Lab Sample ID: 890-4950-50

Date Collected: 07/14/23 12:50

Matrix: Solid

Date Received: 07/14/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58151	07/20/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58250	07/22/23 17:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/24/23 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 14:56	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 10:21	CH	EET MID

Eurofins Carlsbad



Lab Chronicle

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Client Sample ID: BH17B

Date Collected: 07/14/23 12:55

Date Received: 07/14/23 14:35

Lab Sample ID: 890-4950-51

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58038	07/19/23 12:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/20/23 06:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58124	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58909	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58405	07/24/23 17:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 15:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 10:26	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

## Sample Summary

Client: Ensolum  
Project/Site: Nash Unit 12

Job ID: 890-4950-1  
SDG: 03C1558259

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4950-1	BH01	Solid	07/14/23 08:50	07/14/23 14:35	0.5
890-4950-2	BH01A	Solid	07/14/23 08:55	07/14/23 14:35	1
890-4950-3	BH01B	Solid	07/14/23 09:00	07/14/23 14:35	2
890-4950-4	BH02	Solid	07/14/23 09:05	07/14/23 14:35	0.5
890-4950-5	BH02A	Solid	07/14/23 09:10	07/14/23 14:35	1
890-4950-6	BH02B	Solid	07/14/23 09:15	07/14/23 14:35	2
890-4950-7	BH03	Solid	07/14/23 09:20	07/14/23 14:35	0.5
890-4950-8	BH03A	Solid	07/14/23 09:25	07/14/23 14:35	1
890-4950-9	BH03B	Solid	07/14/23 09:30	07/14/23 14:35	2
890-4950-10	BH04	Solid	07/14/23 09:35	07/14/23 14:35	0.5
890-4950-11	BH04A	Solid	07/14/23 09:40	07/14/23 14:35	1
890-4950-12	BH04B	Solid	07/14/23 09:45	07/14/23 14:35	2
890-4950-13	BH05	Solid	07/14/23 09:50	07/14/23 14:35	0.5
890-4950-14	BH05A	Solid	07/14/23 09:55	07/14/23 14:35	1
890-4950-15	BH05B	Solid	07/14/23 10:00	07/14/23 14:35	2
890-4950-16	BH06	Solid	07/14/23 10:05	07/14/23 14:35	0.5
890-4950-17	BH06A	Solid	07/14/23 10:10	07/14/23 14:35	1
890-4950-18	BH06B	Solid	07/14/23 10:15	07/14/23 14:35	2
890-4950-19	BH07	Solid	07/14/23 10:20	07/14/23 14:35	0.5
890-4950-20	BH07A	Solid	07/14/23 10:25	07/14/23 14:35	1
890-4950-21	BH07B	Solid	07/14/23 10:30	07/14/23 14:35	2
890-4950-22	BH08	Solid	07/14/23 10:35	07/14/23 14:35	0.5
890-4950-23	BH08A	Solid	07/14/23 10:40	07/14/23 14:35	1
890-4950-24	BH08B	Solid	07/14/23 13:00	07/14/23 14:35	2
890-4950-25	BH09	Solid	07/14/23 10:45	07/14/23 14:35	0.5
890-4950-26	BH09A	Solid	07/14/23 10:50	07/14/23 14:35	1
890-4950-27	BH09B	Solid	07/14/23 10:55	07/14/23 14:35	2
890-4950-28	BH10	Solid	07/14/23 11:00	07/14/23 14:35	0.5
890-4950-29	BH10A	Solid	07/14/23 11:05	07/14/23 14:35	1
890-4950-30	BH10B	Solid	07/14/23 11:10	07/14/23 14:35	2
890-4950-31	BH11	Solid	07/14/23 11:15	07/14/23 14:35	0.5
890-4950-32	BH11A	Solid	07/14/23 11:20	07/14/23 14:35	1
890-4950-33	BH11B	Solid	07/14/23 11:25	07/14/23 14:35	2
890-4950-34	BH12	Solid	07/14/23 11:30	07/14/23 14:35	0.5
890-4950-35	BH12A	Solid	07/14/23 11:35	07/14/23 14:35	1
890-4950-36	BH12B	Solid	07/14/23 11:40	07/14/23 14:35	2
890-4950-37	BH13	Solid	07/14/23 11:45	07/14/23 14:35	0.5
890-4950-38	BH13A	Solid	07/14/23 11:50	07/14/23 14:35	1
890-4950-39	BH13B	Solid	07/14/23 11:55	07/14/23 14:35	2
890-4950-40	BH14	Solid	07/14/23 12:00	07/14/23 14:35	0.5
890-4950-41	BH14A	Solid	07/14/23 12:05	07/14/23 14:35	1
890-4950-42	BH14B	Solid	07/14/23 12:10	07/14/23 14:35	2
890-4950-43	BH15	Solid	07/14/23 12:15	07/14/23 14:35	0.5
890-4950-44	BH15A	Solid	07/14/23 12:20	07/14/23 14:35	1
890-4950-45	BH15B	Solid	07/14/23 12:25	07/14/23 14:35	2
890-4950-46	BH16	Solid	07/14/23 12:30	07/14/23 14:35	0.5
890-4950-47	BH16A	Solid	07/14/23 12:35	07/14/23 14:35	1
890-4950-48	BH17	Solid	07/14/23 12:40	07/14/23 14:35	0.5
890-4950-49	BH16B	Solid	07/14/23 12:45	07/14/23 14:35	2
890-4950-50	BH17A	Solid	07/14/23 12:50	07/14/23 14:35	1
890-4950-51	BH17B	Solid	07/14/23 12:55	07/14/23 14:35	2



Environment Testing  
Xenco

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 6

Project Manager:	Takoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@ensolum.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Nash Unit 12	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558259				
Project Location:	32.318594, -103.930108	Due Date:			
Sampler's Name:	Meredith B. Bury/Sarah Weir	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:					
SAMPLE RECEIPT					
Samples Received Intact:	Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No	Wet Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No	Parameters		
Cooler Custody Seals:	Yes <input checked="" type="radio"/> No <input type="radio"/> N/A	Correction Factor:	Thermometer ID: 71110007		
Sample Custody Seals:	Yes <input checked="" type="radio"/> No <input type="radio"/> N/A	Temperature Reading:	-0.2		
Total Containers:		Corrected Temperature:	4.2		



890-4950 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH01	S	7/14/23	0850	0.5'	G	1	X BTX X Chlorides X TPH	None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : 4: NaBS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SARC	Incident #: NAB1722948770 RPA: ZRP-4347 Cost Center: 1136551001 API #: 30-015-27602
BH01A			0855	1'					
BH01B			0900	2'					
BH02			0905	0.5'					
BH02A			0910	1'					
BH02B			0915	2'					
BH02A			0920	0.5'					
BH03A			0925	1'					
BH03B			0930	2'					
BH04			0935	0.5'					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and sub-contractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/14/23 04:00 PM	<i>[Signature]</i>	<i>[Signature]</i>	7.14.23 1435





## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: \_\_\_\_\_

Page 2 of 6  
www.xenco.com

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Enseium, LLC	Company Name:	XTO Energy
Address:	3122 Nati Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@enseium.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields: <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other: <input type="text"/>	

Project Name:				Nash Unit 12				Turn Around								Pres. Code				ANALYSIS REQUEST												Preservative Codes			
Project Number:				03C1556259				<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																				None: NO				DI Water: H <sub>2</sub> O			
Project Location:				32.318594, -103.930108				Due Date:																				Cool: Cool				MeOH: Me			
Sampler's Name:				Mearlin Robert Sarah Velazquez				IAT starts the day received by the lab, if received by 4:30pm																				HCL: HC				HNO <sub>3</sub> : HN			
PO #:																												H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>				NaOH: Na			
SAMPLE RECEIPT								Temp Blank:				Yes No				Wet Ice:				Yes No								H <sub>3</sub> PO <sub>4</sub> : HP							
Samples Received Intact:				Yes No				Thermometer ID:																				NaHSO <sub>4</sub> : NABIS							
Cooler Custody Seals:				Yes No N/A				Correction Factor:																				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>							
Sample Custody Seals:				Yes No N/A				Temperature Reading:																				Zn Acetate+NaOH: Zn							
Total Containers:								Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC							

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BT	TP	C <sub>u</sub>	Sample Comments
BH04A	S	7/14/23	0940	1'	G	1	X	X	X	Incident #: NAB1722948770
BH04B			0945	2'						RP: 2RP-4347
BH05			0950	6.5'						
BH05A			0955	1'						
BH05B			1000	2'						Cost Center: 1136551001
BH06			1005	6.5'						
BH06A			1010	1'						
BH06B			1015	2'						API: 30-015-27602
BH07			1020	6.5'						
BH07A			1025	1'						mrpberty@consolidum

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document is a relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the costs of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Phoebe</i>	<i>Wm</i>	7/19/23 14:05	<i>Joe Day</i>		7:14:23

Revised Date: 08/25/2020 Rev. 2002.2



# Environment Testing

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 3 of 6

Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	Enscium, LLC	Company Name:	Garrett Green
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@enscium.com

Work Order Comments			
Program:	UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>		
State of Project:			
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:		

Project Name:	Nash Unit 12	<input checked="" type="checkbox"/> Turn Around	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number:	03C1558259	<input type="checkbox"/> Routine	<input type="checkbox"/> Rush												None: NO	DI Water: H <sub>2</sub> O	
Project Location:	32.318594, -103.930108	Due Date:													Cool: Cool	MeOH: Me	
Sample's Name:	Metallic Ruber/Surface	TAT starts the day received by the lab, if received by 4:30pm													HCL: HC	HNO <sub>3</sub> : HN	
P.O. #:															H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes No	Thermometer ID:	Wet Ice:	Yes No											H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	Yes No		Correction Factor:													NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes No N/A		Temperature Reading:													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes No N/A		Corrected Temperature:													Zn Acetate+NaOH: Zn	
Total Containers:																NaOH+Ascorbic Acid: SARC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments
BH07B	S	7/14/23	1030	2'	G	1	X	X	X								Incident #:
BH06			1035	0.5'													NABIT22948770
BH08A			1040	1'													
BH08B			1300	2'													RP: 2RP.4347
BH09A			1045	0.5'													Cost Center:
BH09B			1050	1'													1136551001
BH10			1055	2'													
BH10A			1100	0.5'													API: 30-015-27602
BH10B			1105	1'													
BH10C			1110	2'													mbert@enscium.com

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitute a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>mbert</i>	<i>mbert</i>	7/14/23	<i>mbert</i>	<i>mbert</i>	7/14/23



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- 14



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

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 4 of 6

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTD Energy
Address:	3122 Nat'l Parks Hwy	Address:	3122 Nat'l Parks Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	331.257.8307	Email:	tmorrissey@ensolum.com

Program:	UST/PST	PRP	Brownfields	RRC	Superfund
State of Project:					
Reporting:	Level II	Level III	PST/UST	TRRP	Level IV
Deliverables:	EDD	Adapt	Other:		

Project Name:	Nash Unit 1a	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	03C1558259	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			None: NO DI Water: H <sub>2</sub> O
Project Location:	32.318594, -103.930108	Due Date:			Cool: Cool MeOH: Me
Sampler's Name:	Meredith Roberts/Sarah Welch	thelab, if received by 4:30pm			HCL: HC HNO <sub>3</sub> : HN
PO #:					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>

SAMPLE RECEIPT	Temp Blank:	Yes	No	Thermometer ID:	Yes	No	Wet Ice:	Yes	No
Samples Received Intact:	Yes	No	Corrective Factor:	Yes	No	Temperature Reached:	Yes	No	N/A
Cooler Custody Seals:	Yes	No	Corrected Temperature:						
Sample Custody Seals:	Yes	No							
Total Containers:									

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grb/Comp	# of Cont	Parameters	Sample Comments
BH 11	S	7/14/23	1115	0.5	G	1	BTEX	Incident #:
BH 11A			1102				Chlorides	NAB122948770
BH 11B			1125	2			TPH	RP: 2RP-4347
BH 12			1130	0.5				Cost Center:
BH 12A			1135	1				1136551001
BH 12B			1140	2				
BH 13			1145	0.5				API: 30-015-27602
BH 13A			1150	1				
BH 13B			1155	2				
BH 14			1200	0.5				moberg@ensolum.com

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas T1 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>meberg</i>	<i>WMP</i>	7/14/23 11:10	<i>Garrett Green</i>	<i>meberg</i>	7/14/23





Environment Testing  
Xenco

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

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 5 of 6

Project Manager:	TACOMA MOBILE	Bill to: (if different)	GARRETT GREEN
Company Name:	ENSOLIM LLC	Company Name:	XTO Energy
Address:	3102 NAT'L RPK HWY	Address:	304 E Greene St
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad, NM, 88220
Phone:	337-257-4307	Email:	twm@ensolim.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	WASH UNIT 12	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558549				
Project Location:	30.318594-103.930109	Due Date:			
Sample's Name:	MeclHtRtststSach wall	AT starts the day received by the lab, if received by 4:30pm			
P.O. #:					
SAMPLE RECEIPT		Temp Blank:	Yes No	Wetted	Yes No
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correct Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH14A	S	7/14/23	1'	1205	G	1	BTEX		None: NO DI Water: H2O	Incident #
BH14B			2'	1210			Chlorides			NAB1722946790
BH15			0.5'	1215			TDH			
BH15A			1'	1220						RP# 28P-4347
BH15B			2'	1225						1136551001
BH16			0.5'	1230						
BH16A			1'	1235						API #: 30-015-0302
BH17			0.5'	1240						
BH18			2'	1245	V					myberis@ensolim.com
BH19A			1'	1250	V					

Total 2007/6010 2008/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7.14.23			



## Environment Testing

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

## Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 6 of 6

Project Manager:	Tadama Morisee	Bill to: (if different)	Garrett Green
Company Name:	ENSOLUM LLC	Company Name:	xto energy
Address:	3122 Nat'l Park Hwy	Address:	3104 E Greenest
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorisee@ensolum.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	Adapt <input type="checkbox"/>	Other:	

[illegible][illegible]

Circle Method(s) and Metal(s) to be analyzed	200.8/6020:	200.8/6020:
Total 200.7/6010	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn	
	TC1P/SP1P 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the costs of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>	<i>[Signature]</i>	7-14-23	2		
3			4		
5			6		

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4950-1

SDG Number: 03C1558259

Login Number: 4950

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4950-1

SDG Number: 03C1558259

Login Number: 4950

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/18/23 11:21 AM

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



## APPENDIX F

*Closure Request; February 8, 2019*

---





February 8, 2019

Mr. Bradford Billings  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive #3  
Santa Fe, New Mexico 87505

**RE: Closure Request  
Nash Unit #12  
Remediation Permit Number 2RP-4347  
Eddy County, New Mexico**

Dear Mr. Billings:

XTO Energy, Inc. (XTO) presents the following letter report detailing the excavation of impacted soil and confirmation soil sampling activities at the Nash Unit #12 (Site) in Unit Letter A of Section 7 in Township 24 South of Range 30 East, in Eddy County, New Mexico (See attached Figure – Geographic Location). The purpose of the soil sampling and excavation activities was to address impacts to soil after the release of produced water and crude oil at the Site on July 29, 2017. The release is included in the *Compliance Agreement for Remediation for Historical Releases* (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with 19.15.29 of the New Mexico Administrative Code (NMAC) dated August 14, 2018. The release is categorized as a Tier II site in the Compliance Agreement, meaning remediation of the release began prior to August 14, 2018, the effective date of 19.15.29 NMAC, but a closure report is pending. Based on the results of the confirmation soil sampling events conducted following application of a biological amendment, XTO is submitting this closure report and requesting no further action for this release event.

## **BACKGROUND**

On July 29, 2017, XTO discovered a release of approximately 22 barrels (bbls) of produced water and 4 barrels of crude oil when a poly flowline ruptured. An estimated 3 bbls of produced water and ½ bbls of crude oil were recovered. The release impacted an approximate 61,220 square feet of land immediately adjacent to and part of a playa (salt lake). According to the NMOCD online GIS map, the release occurred within a significant watercourse. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on August 11, 2017 and was assigned RP Number 2RP-4347 (Appendix A).

This report summarizes remediation work completed during 2017, but never previously reported. All remediation work was conducted prior to implementation of 19.15.29.12 NMAC and under



direction of NMOCD at the time of the release. As such, XTO applied remediation action levels from NMOCD's *Guidelines for Spill, Leaks, and Releases*, dated 1993, including 5,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons (TPH). Background samples collected outside of the release footprint indicate naturally occurring chloride concentrations associated with an adjacent salt lake are 36,000 milligrams per kilogram (mg/kg) to 291,000 mg/kg. Therefore, chloride concentrations in remediation confirmation samples were compared to background concentrations with the understanding that the naturally occurring soils in the salt lake environment consist of significantly elevated chloride.

## SOIL SAMPLING AND REMEDIATION ACTIVITIES

Basin Environmental Service Technologies (Basin) personnel were on site July 31, 2017, to collect initial soil samples and mitigate the affected area. Basin collected 17 surface soil samples from the release footprint and 2 background soil samples. The sample locations are depicted on the attached Figure.

Because the impacted area was in a location making excavation virtually impossible, Micro-Blaze® was sprayed on the impacted area to facilitate biodegradation of the hydrocarbons. Oil absorbent socks were placed in the release footprint to intercept residual hydrocarbons that may migrate in surface water toward the salt lake. Initial surface soil samples were collected within the release footprint and delivered to an approved NMOCD commercial laboratory for analysis. The analytical report details the concentration of chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO) for the initial samples (Appendix B).

In the following weeks, Micro-Blaze® was applied 4 more times at the same ratio of 50:1, water to amendment. The oil absorbent socks were replaced weekly with new, non-impacted socks 7 times. No visible staining was observed on the oil absorbent socks after the fifth change.

On September 19, 2017, Basin Environmental collected discrete soil samples from the release footprint to monitor remediation progress and confirm TPH results were below NMOCD remediation action levels. The samples were analyzed by an NMOCD approved laboratory.

Another consultant collected an additional 6 background samples on February 6, 2019. The background samples were collected to better represent naturally occurring conditions at the salt lake. Soil sample locations for Background 1 through Background 6 are shown on the attached figure.

## ANALYTICAL RESULTS

Laboratory analytical results indicated preliminary soil samples exceeded the applicable NMOCD remediation action levels and background sample results, indicating the necessity of additional remediation.

Laboratory analytical results of remediation confirmation soil samples indicated a reduction in TPH concentrations in the area of soil sample SP 10 from 5,170 mg/kg to below the laboratory





detection limit and soil sample SP 17 from 5,077 mg/kg to 1,640.4 mg/kg. TPH concentrations in all other remediation confirmation soil samples ranged from below the laboratory detection limit to 34.6 mg/kg. Chloride concentrations are within range of background concentrations and naturally occurring conditions based on the release area's close proximity to the salt lake. The laboratory analytical results are presented in Table 1 and Table 2 and the complete laboratory analytical reports are attached.

## CONCLUSIONS

Laboratory analytical results for final confirmation soil samples collected after multiple applications of Micro-Blaze® indicate that TPH concentrations were compliant with NMOCD remediation action levels at the time remediation was conducted. Chloride concentrations are elevated, but the result of the naturally occurring conditions associated with the adjacent salt lake. XTO requests no further action for release number 2RP-4347. An updated NMOCD Form C-141 is included in Attachment 3.

If you have any questions or comments, please do not hesitate to contact Kyle Littrell at 432-221-7331 or [Kyle\\_Littrell@xtoenergy.com](mailto:Kyle_Littrell@xtoenergy.com).

Sincerely,

Kyle Littrell  
Safety, Health, and Environmental Supervisor

cc: Amy Ruth, XTO  
Jim Amos, BLM  
Shelly Tucker, BLM

### Attachments:

Figure - Geographic Location

Figure - Initial Sampling

Table 1 2017 Concentrations of TPH Chloride

Table 2 Additional Background Soil Analytical Results

Appendix A Initial/Final NMOCD Form C-141

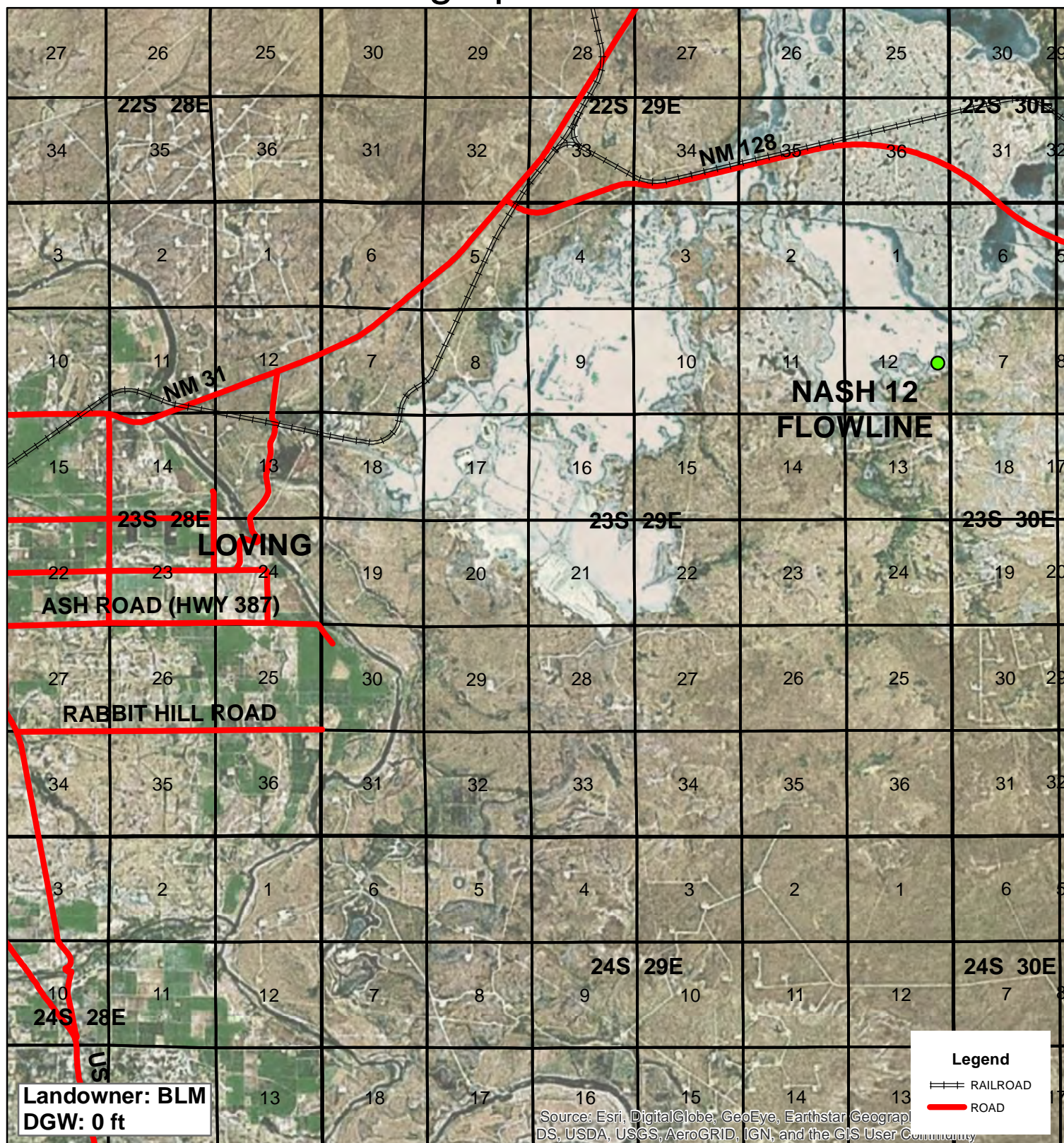
Appendix B Laboratory Analytical Reports

Appendix C Photo Log

# FIGURES



## Geographic Location

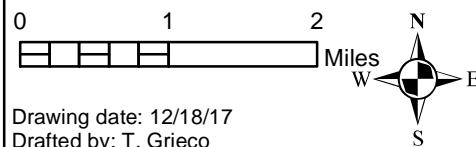


**XTO**  
**NASH 12 FLOWLINE**  
2RP-4347

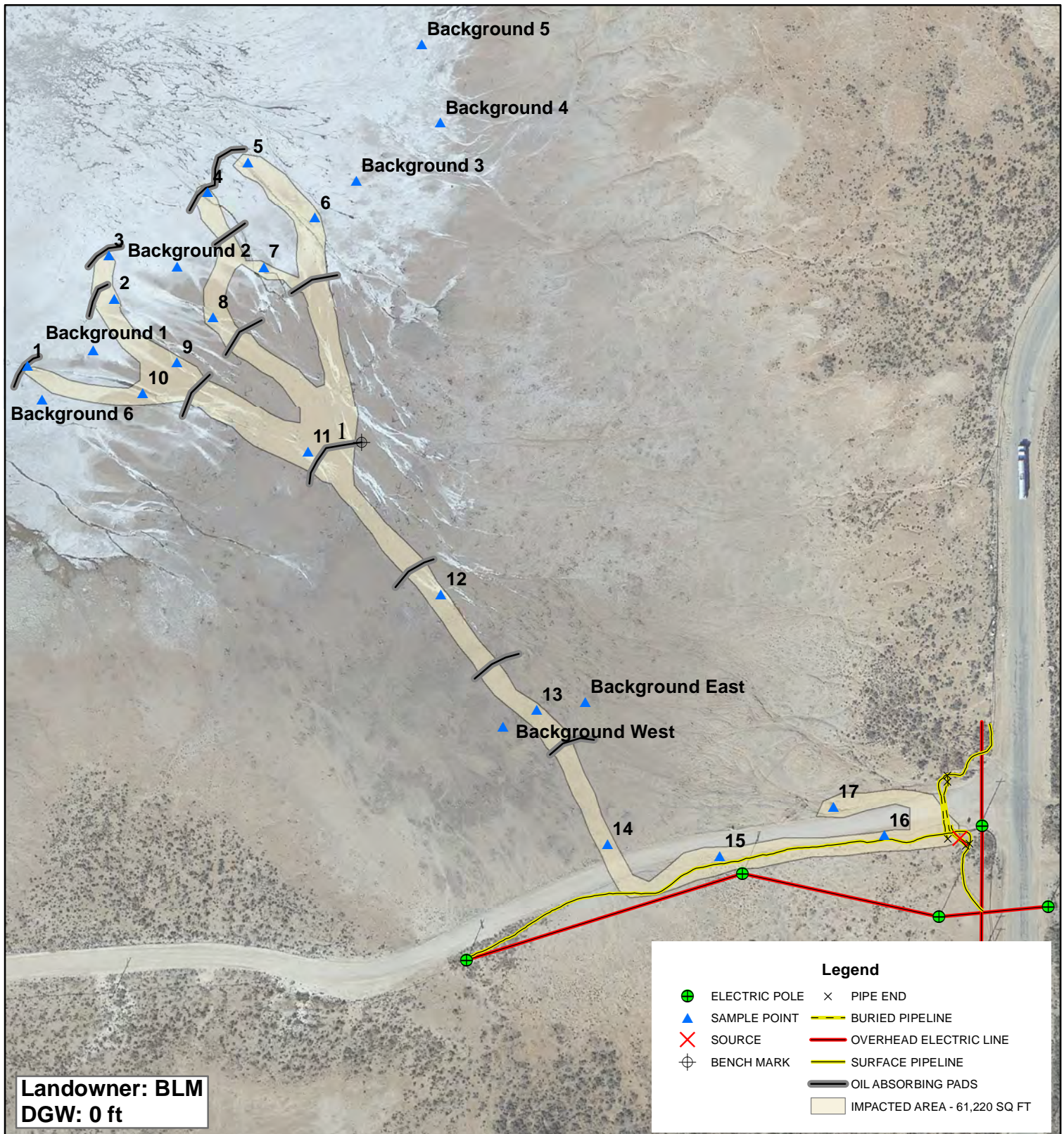
UL H, I & L SECTION 12  
T-23-S R-29-E  
EDDY COUNTY, NM

GPS: 32.319360 -103.931548

**Figure 1**







## XTO NASH 12 FLOWLINE

UL H, I & L SECTION 12  
T-23-S R-29-E  
EDDY COUNTY, NM

**Underground facilities are  
spatially projected  
and need to be field verified.**

GPS: 32.319360 -103.931548

0 100 200  
Feet

GPS date: 8/3/17 TG  
Drawing date: 8/4/17  
Drafted by: T. Grieco



# TABLE

**TABLE 1**  
**2017 CONCENTRATIONS OF TPH & CHLORIDE**  
**XTO**  
**Nash 12 Flowline**  
**EDDY COUNTY, NEW MEXICO**  
**UL H, I, & L SEC 12, T-23-S, R-29-E**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015B			TPH	E 300
				GRO C <sub>6-10</sub> (mg/Kg)	DRO C <sub>10-28</sub> (mg/Kg)	ORO C <sub>28-36</sub> (mg/Kg)	TOTAL C <sub>6-36</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP 1 @ Surface	SUR	7/31/2017	In-Situ	<10	<10	NA	<10	105000
SP 2 @ Surface	SUR	7/31/2017	In-Situ	<10	31.1	NA	31.1	44000
SP 3 @ Surface	SUR	7/31/2017	In-Situ	<10	1290	NA	1290	192000
SP 4 @ Surface	SUR	7/31/2017	In-Situ	<10	35	NA	35	172000
SP 5 @ Surface	SUR	7/31/2017	In-Situ	<10	1650	NA	1650	280000
SP 6 @ Surface	SUR	7/31/2017	In-Situ	<10	111	NA	111	42700
SP 7 @ Surface	SUR	7/31/2017	In-Situ	<10	185	NA	185	42700
SP 8 @ Surface	SUR	7/31/2017	In-Situ	<10	45.2	NA	45.2	48800
SP 9 @ Surface	SUR	7/31/2017	In-Situ	<10	1270	NA	1270	40800
SP 10 @ Surface	SUR	7/31/2017	In-Situ	<10	5170	NA	5170	36000
SP 11 @ Surface	SUR	7/31/2017	In-Situ	<10	1500	NA	1500	33600
SP 12 @ Surface	SUR	7/31/2017	In-Situ	<10	716	NA	716	51200
SP 13 @ Surface	SUR	7/31/2017	In-Situ	<10	218	NA	218	41600
SP 14 @ Surface	SUR	7/31/2017	In-Situ	<10	43.2	NA	43.2	37600
SP 15 @ Surface	SUR	7/31/2017	In-Situ	<10	155	NA	155	34400
SP 16 @ Surface	SUR	7/31/2017	In-Situ	<10	96.1	NA	96.1	35200
SP 17 @ Surface	SUR	7/31/2017	In-Situ	177	4900	NA	5077	36000
BKG West	SUR	7/31/2017	In-Situ	<10	<10	NA	<10	41600
BKG East	SUR	7/31/2017	In-Situ	<10	<10	NA	<10	36000



**TABLE 1**  
**2017 CONCENTRATIONS OF TPH & CHLORIDE**  
**XTO**  
**Nash 12 Flowline**  
**EDDY COUNTY, NEW MEXICO**  
**UL H, I, & L SEC 12, T-23-S, R-29-E**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015B			TPH	E 300
				GRO C <sub>10</sub> (mg/Kg)	DRO C <sub>10</sub> C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/Kg)	TOTAL C <sub>6</sub> C <sub>36</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP 1 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	50400
SP 1 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	65600
SP 2 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	70400
SP 2 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	67200
SP 3 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	60000
SP 3 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	61600
SP 4 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	160000
SP 4 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	78400
SP 5 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	111000
SP 5 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	81600
SP 6 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	52000
SP 6 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	60800
SP 7 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	97300
SP 7 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	48800
SP 8 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	48000
SP 8 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	44000
SP 9 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	48000
SP 9 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	45600
SP 10 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	41600
SP 10 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	50400
SP 11 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	46400
SP 11 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	33600
SP 12 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	54400
SP 12 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	40000
SP 13 @ Surface	SUR	9/19/2017	In-Situ	<10	<10	<10	<10	45600
SP 13 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	30000
SP 14 @ Surface	SUR	9/19/2017	In-Situ	<10	34.6	<10	34.6	30000
SP 14 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	25200
SP 15 @ Surface	SUR	9/19/2017	In-Situ	<10	14.5	<10	14.5	42000
SP 15 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	18000
SP 16 @ Surface	SUR	9/19/2017	In-Situ	<10	13.3	<10	13.3	27600
SP 16 @ 6"	6"	9/19/2017	In-Situ	<10	<10	<10	<10	9200
SP 17 @ Surface	SUR	9/19/2017	In-Situ	<10	712	182	894	9060
SP 17 @ 6"	6"	9/19/2017	In-Situ	24.4	1370	246	1640.4	5330



**TABLE 2**  
**ADDITIONAL BACKGROUND SOIL ANALYTICAL RESULTS**

**NASH UNIT #12**  
**REMEDIATION PERMIT NUMBER 2RP-4347**  
**EDDY COUNTY, NEW MEXICO**  
**XTO ENERGY, INC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	Chloride (mg/kg)
Background 1	0.5	02/06/2019	48,500
Background 2	0.5	02/06/2019	27,100
Background 3	0.5	02/06/2019	36,100
Background 4	0.5	02/06/2019	21,100
Background 5	0.5	02/06/2019	31,900
Background 6	Surface	02/06/2019	291,000

**Notes:**

bgs - below ground surface

mg/kg - milligrams per kilogram

# APPENDICES

# APPENDIX A

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised April 3, 2017

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company XTO Energy	Contact Amy Ruth
Address 522 W. Mermod, Suite 704, Carlsbad, NM 88220	Telephone No. 575-887-7329
Facility Name Nash Unit #012	Facility Type Exploration and Production

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-27602
-----------------------	-----------------------	----------------------

### LOCATION OF RELEASE

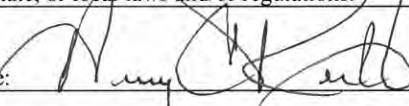
Unit Letter I	Section 12	Township 23S	Range 29E	Feet from the 2200	North/South Line South	Feet from the 140	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.318594 Longitude -103-930108 NAD83

### NATURE OF RELEASE

Type of Release Produced Water and Crude Oil	Volume of Release 22.37 bbl PW, 3.95 bbl Crude Oil	Volume Recovered 2.98 bbls PW, 0.52 bbls Crude Oil
Source of Release Poly Flow-line	Date and Hour of Occurrence 7/29/17, Unknown	Date and Hour of Discovery 7/29/17, 7:15 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD), Jim Amos/Shelly Tucker (BLM)	
By Whom? Amy Ruth	Date and Hour 7/29/17, 4:25 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Poly flow-line ruptured. Well was shut in and free standing fluids were recovered.		
Describe Area Affected and Cleanup Action Taken.* The release impacted an approximate sixty-one thousand two-hundred twenty (61,220) square feet (ft <sup>2</sup> ) of pasture. Micro-Blaze® was applied. Oil absorbent socks were placed in drainage areas.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Amy Ruth		Approved by Environmental Specialist:	
Title: Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address: Amy_Ruth@XTOenergy.com		Conditions of Approval:	
Date: 12/15/17 Phone: 432-661-0571		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

# APPENDIX B



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

August 02, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: NASH 12 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/01/17 12:05.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H702000-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>105000</b>	16.0	08/01/2017	ND	416	104	400	3.77	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	<10.0	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane	110 %	28.3-164							
Surrogate: 1-Chlorooctadecane	127 %	34.7-157							

**Sample ID: SP 2 @ SURFACE (H702000-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>44000</b>	16.0	08/01/2017	ND	448	112	400	3.51	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	08/01/2017	ND	185	92.4	200	5.38	
<b>DRO &gt;C10-C28</b>	<b>31.1</b>	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane	98.2 %	28.3-164							
Surrogate: 1-Chlorooctadecane	112 %	34.7-157							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H702000-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192000	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	1290	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 143 % 34.7-157

**Sample ID: SP 4 @ SURFACE (H702000-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	172000	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	35.0	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 115 % 28.3-164

Surrogate: 1-Chlorooctadecane 135 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H702000-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	280000	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	1650	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 153 % 34.7-157

**Sample ID: SP 6 @ SURFACE (H702000-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42700	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	111	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 117 % 28.3-164

Surrogate: 1-Chlorooctadecane 134 % 34.7-157

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ SURFACE (H702000-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42700	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	185	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 109 % 28.3-164

Surrogate: 1-Chlorooctadecane 134 % 34.7-157

**Sample ID: SP 8 @ SURFACE (H702000-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	45.2	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 96.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ SURFACE (H702000-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	40800	16.0	08/01/2017	ND	448	112	400	3.51		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2017	ND	185	92.4	200	5.38		
DRO >C10-C28	1270	10.0	08/01/2017	ND	197	98.7	200	2.73		

Surrogate: 1-Chlorooctane 99.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 181 % 34.7-157

**Sample ID: SP 10 @ SURFACE (H702000-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	08/01/2017	ND	448	112	400	3.51		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2017	ND	185	92.4	200	5.38		
DRO >C10-C28	5170	10.0	08/01/2017	ND	197	98.7	200	2.73		

Surrogate: 1-Chlorooctane 96.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 219 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 11 @ SURFACE (H702000-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	1500	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane	96.2 %	28.3-164							
Surrogate: 1-Chlorooctadecane	138 %	34.7-157							

**Sample ID: SP 12 @ SURFACE (H702000-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	51200	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	716	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane	99.9 %	28.3-164							
Surrogate: 1-Chlorooctadecane	119 %	34.7-157							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 13 @ SURFACE (H702000-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	218	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane		97.5 %	28.3-164						
Surrogate: 1-Chlorooctadecane		116 %	34.7-157						

**Sample ID: SP 14 @ SURFACE (H702000-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37600	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	43.2	10.0	08/01/2017	ND	197	98.7	200	2.73	
Surrogate: 1-Chlorooctane	109 %	28.3-164							
Surrogate: 1-Chlorooctadecane	132 %	34.7-157							

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 15 @ SURFACE (H702000-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34400	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	155	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 96.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 117 % 34.7-157

**Sample ID: SP 16 @ SURFACE (H702000-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35200	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	96.1	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 108 % 28.3-164

Surrogate: 1-Chlorooctadecane 125 % 34.7-157

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 17 @ SURFACE (H702000-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	08/01/2017	ND	448	112	400	3.51		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	177	10.0	08/01/2017	ND	185	92.4	200	5.38		
DRO >C10-C28	4900	10.0	08/01/2017	ND	197	98.7	200	2.73		

Surrogate: 1-Chlorooctane 129 % 28.3-164

Surrogate: 1-Chlorooctadecane 193 % 34.7-157

**Sample ID: BACKGROUND EAST (H702000-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	08/01/2017	ND	448	112	400	3.51		
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	08/01/2017	ND	185	92.4	200	5.38		
DRO >C10-C28	<10.0	10.0	08/01/2017	ND	197	98.7	200	2.73		

Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 120 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/01/2017  
 Reported: 08/02/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 07/31/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BACKGROUND WEST (H702000-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	08/01/2017	ND	448	112	400	3.51	
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	08/01/2017	ND	185	92.4	200	5.38	
DRO >C10-C28	<10.0	10.0	08/01/2017	ND	197	98.7	200	2.73	

Surrogate: 1-Chlorooctane 87.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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### 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]







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September 25, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: NASH 12 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/19/17 12:25.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H702528-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		102 %	28.3-164						
Surrogate: 1-Chlorooctadecane		116 %	34.7-157						

**Sample ID: SP 1 @ 6" (H702528-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		100 %	28.3-164						
Surrogate: 1-Chlorooctadecane		104 %	34.7-157						

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H702528-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	70400	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	104 %	28.3-164							
Surrogate: 1-Chlorooctadecane	114 %	34.7-157							

**Sample ID: SP 2 @ 6" (H702528-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	67200	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	103 %	28.3-164							
Surrogate: 1-Chlorooctadecane	111 %	34.7-157							

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H702528-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60000	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	105 %	28.3-164							
Surrogate: 1-Chlorooctadecane	111 %	34.7-157							

**Sample ID: SP 3 @ 6" (H702528-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	61600	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	106 %	28.3-164							
Surrogate: 1-Chlorooctadecane	115 %	34.7-157							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ SURFACE (H702528-07)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160000	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	104 %	28.3-164							
Surrogate: 1-Chlorooctadecane	117 %	34.7-157							

**Sample ID: SP 4 @ 6" (H702528-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	78400	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	95.5 %	28.3-164							
Surrogate: 1-Chlorooctadecane	104 %	34.7-157							

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H702528-09)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	111000	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	91.8 %	28.3-164							
Surrogate: 1-Chlorooctadecane	102 %	34.7-157							

**Sample ID: SP 5 @ 6" (H702528-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	81600	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	97.4 %	28.3-164							
Surrogate: 1-Chlorooctadecane	107 %	34.7-157							

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 Fax To: (575) 396-1429

Received: 09/19/2017  
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 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ SURFACE (H702528-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52000	16.0	09/20/2017	ND	432	108	400	0.00	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	97.4 %	28.3-164							
Surrogate: 1-Chlorooctadecane	108 %	34.7-157							

**Sample ID: SP 6 @ 6" (H702528-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	09/21/2017	ND	432	108	400	3.64	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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	103 %	28.3-164							
Surrogate: 1-Chlorooctadecane	108 %	34.7-157							

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
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 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ SURFACE (H702528-13)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	97300	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	103 %	28.3-164							
Surrogate: 1-Chlorooctadecane	105 %	34.7-157							

**Sample ID: SP 7 @ 6" (H702528-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		101 %	28.3-164						
Surrogate: 1-Chlorooctadecane		112 %	34.7-157						

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ SURFACE (H702528-15)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	101 %	28.3-164							
Surrogate: 1-Chlorooctadecane	104 %	34.7-157							

**Sample ID: SP 8 @ 6" (H702528-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	103 %	28.3-164							
Surrogate: 1-Chlorooctadecane	107 %	34.7-157							

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 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ SURFACE (H702528-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	106 %	28.3-164							
Surrogate: 1-Chlorooctadecane	117 %	34.7-157							

**Sample ID: SP 9 @ 6" (H702528-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45600	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	190	95.0	200	0.677	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	210	105	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		107 %	28.3-164						
Surrogate: 1-Chlorooctadecane		112 %	34.7-157						

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 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 @ SURFACE (H702528-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	101 %	28.3-164							
Surrogate: 1-Chlorooctadecane	106 %	34.7-157							

**Sample ID: SP 10 @ 6" (H702528-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	101 %	28.3-164							
Surrogate: 1-Chlorooctadecane	107 %	34.7-157							

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 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 11 @ SURFACE (H702528-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46400	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	98.1 %	28.3-164							
Surrogate: 1-Chlorooctadecane	99.9 %	34.7-157							

**Sample ID: SP 11 @ 6" (H702528-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	89.9 %	28.3-164							
Surrogate: 1-Chlorooctadecane	100 %	34.7-157							

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 12 @ SURFACE (H702528-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	98.8 %	28.3-164							
Surrogate: 1-Chlorooctadecane	104 %	34.7-157							

**Sample ID: SP 12 @ 6" (H702528-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	98.6 %	28.3-164							
Surrogate: 1-Chlorooctadecane	102 %	34.7-157							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 13 @ SURFACE (H702528-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45600	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	110 %	28.3-164							
Surrogate: 1-Chlorooctadecane	111 %	34.7-157							

**Sample ID: SP 13 @ 6" (H702528-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		66.3 %	28.3-164						
Surrogate: 1-Chlorooctadecane		93.8 %	34.7-157						

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 14 @ SURFACE (H702528-27)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	34.6	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	102 %	28.3-164							
Surrogate: 1-Chlorooctadecane	111 %	34.7-157							

**Sample ID: SP 14 @ 6" (H702528-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	91.2 %	28.3-164							
Surrogate: 1-Chlorooctadecane	97.7 %	34.7-157							

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 15 @ SURFACE (H702528-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	14.5	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	117 %	28.3-164							
Surrogate: 1-Chlorooctadecane	123 %	34.7-157							

**Sample ID: SP 15 @ 6" (H702528-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	96.7 %	28.3-164							
Surrogate: 1-Chlorooctadecane	102 %	34.7-157							

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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 16 @ SURFACE (H702528-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	13.3	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		99.5 %	28.3-164						
Surrogate: 1-Chlorooctadecane		106 %	34.7-157						

**Sample ID: SP 16 @ 6" (H702528-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	09/21/2017	ND	432	108	400	3.64	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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	<10.0	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane		87.0 %	28.3-164						
Surrogate: 1-Chlorooctadecane		92.8 %	34.7-157						

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 09/19/2017  
 Reported: 09/25/2017  
 Project Name: NASH 12 FLOW LINE  
 Project Number: NOT GIVEN  
 Project Location: XTO- EDDY CO NM

Sampling Date: 09/19/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 17 @ SURFACE (H702528-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	09/21/2017	ND	432	108	400	3.64	
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	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	712	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	182	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	100 %	28.3-164							
Surrogate: 1-Chlorooctadecane	140 %	34.7-157							

**Sample ID: SP 17 @ 6" (H702528-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	09/21/2017	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24.4	10.0	09/21/2017	ND	191	95.3	200	1.88	
DRO >C10-C28	1370	10.0	09/21/2017	ND	188	94.2	200	5.02	
EXT DRO >C28-C36	246	10.0	09/21/2017	ND					
Surrogate: 1-Chlorooctane	104 %	28.3-164							
Surrogate: 1-Chlorooctadecane	127 %	34.7-157							

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Basin Environmental Service Technologies, LLC	<b>P.O. #:</b>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>
<b>Project Manager:</b> Robbie Runnels	<b>Company:</b> XTO Energy		
<b>Address:</b> P.O. Box 301	<b>Attn:</b> Amy Ruth		
<b>City:</b> Lovington	<b>State:</b> NM <b>Zip:</b> 88260		
<b>Phone #:</b> (575)396-2378 <b>Fax #:</b> (575)396-1429	<b>Address:</b>		
<b>Project #:</b>	<b>Project Owner:</b> XTO Energy	<b>City:</b>	<b>State:</b> NM <b>Zip:</b> 88260
<b>Project Name:</b> Nash 12 Flowline	<b>Project Location:</b> Eddy	<b>Phone #:</b>	<b>Fax #:</b>
<b>Sampler Name:</b> Robbie Runnels			

Address: P.O. Box 301		State: NM Zip: 88260		Company: XTO Energy	
City: Lovington				Attn: Amy Ruth	
Phone #: (575)396-2378		Fax #: (575)396-1429		Address:	
Project #:		Project Owner: XTO Energy		City:	
Project Name: Nash 12 Flowline		State: NM Zip: 88260		Phone #:	
Project Location: Eddy		Fax #:			
Sampler Name: Robbie Runnels		PRESERV.		SAMPLING	
FOR LAB USE ONLY		MATRIX			
Lab I.D.		Sample I.D.			
H702538		(G)RAB OR (C)OMP.		DATE TIME	
1 SP1 @ Surface		# CONTAINERS		Chloride	
2 SP1 @ 6"		GROUNDWATER		TPH (8015M)	
3 SP2 @ Surface		WASTEWATER		BTEX (8021B)	
4 SP2 @ 6"		SOIL			
5 SP3 @ Surface		OIL			
6 SP3 @ 6"		SLUDGE			
7 SP4 @ Surface		OTHER :			
8 SP4 @ 6"		ACID/BASE:			
9 SP5 @ Surface		ICE / COOL			
10 SP5 @ 6"		OTHER :			





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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Basin Environmental Service Technologies, LLC		P.O. #:		
Project Manager: Robbie Runnels		Company:	XTO Energy	
Address: P.O. Box 301		Attn:	Amy Ruth	
City: Lovington		State: NM	Zip: 88260	
Phone #: (575)396-2378		Fax #: (575)396-1429		
Project #:		Project Owner:	XTO Energy	
Project Name: Nash 12 Flowline		State: NM	Zip: 88260	
Project Location: Eddy		Phone #:		
Sampler Name: Robbie Runnels		Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			OTHER :	ACID/BASE:	ICE / COOL	OTHER :	Chloride	TPH (8015M)	BTEX (8021B)			
402528	11 SP6 @ Surface	g	1	X					9/19/17	0925	X	X								
	12 SP6 @ 6"	g	1	X					9/19/17	0926	X	X								
	13 SP7 @ Surface	g	1	X					9/19/17	0930	X	X								
	14 SP7 @ 6"	g	1	X					9/19/17	0931	X	X								
	15 SP8 @ Surface	g	1	X					9/19/17	0935	X	X								
	16 SP8 @ 6"	g	1	X					9/19/17	0936	X	X								
	17 SP9 @ Surface	g	1	X					9/19/17	0940	X	X								
	18 SP9 @ 6"	g	1	X					9/19/17	0941	X	X								
	19 SP10 @ Surface	g	1	X					9/19/17	0945	X	X								
	20 SP10 @ 6"	g	1	X					9/19/17	0946	X	X								

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Relinquished By:	Date: 9-19-17	Received By:	Date: 9-19-17
Time: 12:25		Time: 12:25	

Relinquished By:	Received By:

Delivered By: (Circle One) 3842	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: Connected 38652	Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No





## ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:						Basin Environmental Service Technologies, LLC			
Project Manager:						Robbie Runnels			
Address:						P.O. Box 301 City: Lovington State: NM Zip: 88260 Attn: Amy Ruth Address: Phone #: (575)396-2378 Fax #:(575)396-1429 Project Owner: XTO Energy			
Project Name:						Nash 12 Flowline			
Project Location:						Eddy			
Sampler Name:						Robbie Runnels			
FOR LAB USE ONLY						Fax #:			
Lab I.D.						Sample I.D.			
H102538	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	Date Time	Chloride	TPH (8015M)	BTEX (8021B)
SP1 @ Surface	g	1	X			9/19/17 0950	x	x	
SP1 @ 6"	g	1	X			9/19/17 0951	x	x	
SP12 @ Surface	g	1	X			9/19/17 0955	x	x	
SP12 @ 6"	g	1	X			9/19/17 0956	x	x	
SP13 @ Surface	g	1	X			9/19/17 1000	x	x	
SP13 @ 6"	g	1	X			9/19/17 1001	x	x	
SP14 @ Surface	g	1	X			9/19/17 1007	x	x	
SP14 @ 6"	g	1	X			9/19/17 1008	x	x	
SP15 @ Surface	g	1	X			9/19/17 1010	x	x	
SP15 @ 6"	g	1	X			9/19/17 1011	x	x	
PLEASE NOTE: Liability and Damages. Cardnet's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims involving those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardnet within 30 days after completion of the applicable services. In no event shall Cardnet be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder By Cardnet, regardless of whether such claim is based upon any of the above stated reasons or otherwise.									
Relinquished By:						Date: 9-19-17 Received By: [Signature]			
						Time: 12:25			
Reinquinshed By:						Date: [Blank] Received By: [Signature]			
						Time: [Blank]			
Delivered By: (Circle One) <u>38:48</u>						Sample Condition Cool Intact Yes No Checked BY: (Initials) SP THS			
Sampler - UPS - Bus - Other:						Please email results to pm@basinenr.com, amy_ruth@xtoenergy.com			
						Remarks: Brought to lab from field			





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> Basin Environmental Service Technologies, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>										
<b>Project Manager:</b> Robbie Runnels		<b>P.O. #:</b>												
<b>Address:</b> P.O. Box 301		<b>Company:</b> XTO Energy												
<b>City:</b> Lovington		<b>Attn:</b> Amy Ruth												
<b>Phone #:</b> (575)396-2378		<b>Address:</b>												
<b>Fax #:</b> (575)396-1429		<b>City:</b>												
<b>Project #:</b>		<b>State:</b> NM		<b>Zip:</b> 88260										
<b>Project Name:</b> Nash 12 Flowline		<b>Phone #:</b>												
<b>Project Location:</b> Eddy		<b>Fax #:</b>												
<b>Sampler Name:</b> Robbie Runnels														
<b>FOR LAB USE ONLY</b>														
<b>Lab I.D.</b>	<b>Sample I.D.</b>	(G)RAB OR (C)OMP.	# CONTAINERS	<b>MATRIX</b>			<b>PRESERV.</b>	<b>SAMPLING</b>						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		
31	SP16 @ Surface	g	1	X										
32	SP16 @ 6"	g	1	X										
33	SP17 @ Surface	g	1	X										
34	SP17 @ 6"	g	1	X										
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.														
<b>Relinquished By:</b>		<b>Date:</b> 9-19-17		<b>Received By:</b>		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>								
<b>Relinquished By:</b>		<b>Time:</b> 12:25		<b>Received By:</b>		<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>								
<b>Delivered By: (Circle One)</b> 38.4		<b>Sample Condition</b>		<b>CHECKED BY:</b>										
<b>Sampler - UPS - Bus - Other:</b> Corrected 38.65%		<input type="checkbox"/> Cool <input type="checkbox"/> Intact		<b>(Initials)</b>										
		<input type="checkbox"/> Yes <input type="checkbox"/> No												
<b>REMARKS:</b> Brought to Lab from field														

Please email results to pm@basinenr.com, amy\_ruth@xtoenergy.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



# Analytical Report 613647

for  
**LT Environmental, Inc.**

**Project Manager: Adrian Baker**

**Nash Unit #12**

**2RP-4347**

**07-FEB-19**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



07-FEB-19

Project Manager: **Adrian Baker**  
**LT Environmental, Inc.**  
4600 W. 60th Avenue  
Arvada, CO 80003

Reference: XENCO Report No(s): **613647**  
**Nash Unit #12**  
Project Address:

**Adrian Baker:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 613647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 613647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

---

**Jessica Kramer**  
Project Assistant

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 613647****LT Environmental, Inc., Arvada, CO**

Nash Unit #12

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Background 1	S	02-05-19 11:20	0.5 ft	613647-001
Background 2	S	02-05-19 12:00	0.5 ft	613647-002
Background 3	S	02-05-19 12:10	0.5 ft	613647-003
Background 4	S	02-05-19 12:15	0.5 ft	613647-004
Background 5	S	02-05-19 12:27	0.5 ft	613647-005
Background 6	S	02-05-19 12:55	N/A	613647-006



## CASE NARRATIVE

*Client Name: LT Environmental, Inc.*

*Project Name: Nash Unit #12*

Project ID: 2RP-4347  
Work Order Number(s): 613647

Report Date: 07-FEB-19  
Date Received: 02/06/2019

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analysis Summary 613647

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit #12

**Project Id:** 2RP-4347  
**Contact:** Adrian Baker  
**Project Location:**

**Date Received in Lab:** Wed Feb-06-19 12:00 pm  
**Report Date:** 07-FEB-19  
**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	613647-001	613647-002	613647-003	613647-004	613647-005	613647-006
	<i>Field Id:</i>	Background 1	Background 2	Background 3	Background 4	Background 5	Background 6
	<i>Depth:</i>	0.5- ft	0.5- ft	0.5- ft	0.5- ft	0.5- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-05-19 11:20	Feb-05-19 12:00	Feb-05-19 12:10	Feb-05-19 12:15	Feb-05-19 12:27	Feb-05-19 12:55
<b>Inorganic Anions by EPA 300</b>	<i>Extracted:</i>	Feb-06-19 13:00	Feb-06-19 13:00	Feb-06-19 13:00	Feb-06-19 13:00	Feb-06-19 14:00	Feb-06-19 14:00
	<i>Analyzed:</i>	Feb-06-19 22:34	Feb-06-19 22:40	Feb-06-19 22:46	Feb-06-19 22:53	Feb-07-19 00:56	Feb-07-19 01:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		48500 250	27100 251	36100 250	21100 249	31900 251	291000 998

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer  
Project Assistant



## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 1**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-001

Date Collected: 02.05.19 11.20

Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 13.00

Basis: Wet Weight

Seq Number: 3078364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48500	250	mg/kg	02.06.19 22.34		50





## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 2**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-002

Date Collected: 02.05.19 12.00

Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 13.00

Basis: Wet Weight

Seq Number: 3078364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27100	251	mg/kg	02.06.19 22.40		50



## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 3**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-003

Date Collected: 02.05.19 12.10

Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 13.00

Basis: Wet Weight

Seq Number: 3078364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36100	250	mg/kg	02.06.19 22.46		50



## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 4**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-004

Date Collected: 02.05.19 12.15

Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 13.00

Basis: Wet Weight

Seq Number: 3078364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21100	249	mg/kg	02.06.19 22.53		50



## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 5**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-005

Date Collected: 02.05.19 12.27

Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 14.00

Basis: Wet Weight

Seq Number: 3078366

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31900	251	mg/kg	02.07.19 00.56		50



## Certificate of Analytical Results 613647



## LT Environmental, Inc., Arvada, CO

Nash Unit #12

Sample Id: **Background 6**

Matrix: Soil

Date Received: 02.06.19 12.00

Lab Sample Id: 613647-006

Date Collected: 02.05.19 12.55

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.06.19 14.00

Basis: Wet Weight

Seq Number: 3078366

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	291000	998	mg/kg	02.07.19 01.21		200



## Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



## LT Environmental, Inc.

Nash Unit #12

## Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078364

MB Sample Id: 7671231-1-BLK

Matrix: Solid

LCS Sample Id: 7671231-1-BKS

Prep Method: E300P

Date Prep: 02.06.19

LCSD Sample Id: 7671231-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	244	98	228	91	90-110	7	20	mg/kg	02.06.19 19:47	

## Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078366

MB Sample Id: 7671232-1-BLK

Matrix: Solid

LCS Sample Id: 7671232-1-BKS

Prep Method: E300P

Date Prep: 02.06.19

LCSD Sample Id: 7671232-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	227	91	237	95	90-110	4	20	mg/kg	02.06.19 23:20	

## Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078364

Parent Sample Id: 613604-001

Matrix: Soil

MS Sample Id: 613604-001 S

Prep Method: E300P

Date Prep: 02.06.19

MSD Sample Id: 613604-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	260	104	247	99	90-110	5	20	mg/kg	02.06.19 20:06	

## Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078364

Parent Sample Id: 613645-003

Matrix: Soil

MS Sample Id: 613645-003 S

Prep Method: E300P

Date Prep: 02.06.19

MSD Sample Id: 613645-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	383	250	591	83	606	89	90-110	3	20	mg/kg	02.06.19 21:35	X

## Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078366

Parent Sample Id: 613642-004

Matrix: Soil

MS Sample Id: 613642-004 S

Prep Method: E300P

Date Prep: 02.06.19

MSD Sample Id: 613642-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	78.8	250	319	96	328	100	90-110	3	20	mg/kg	02.06.19 23:39	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec





## LT Environmental, Inc.

Nash Unit #12

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3078366

Parent Sample Id: 613642-013

Matrix: Soil

MS Sample Id: 613642-013 S

Prep Method: E300P

Date Prep: 02.06.19

MSD Sample Id: 613642-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.40	250	259	100	262	101	90-110	1	20	mg/kg	02.07.19 01:08	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## Chain of Custody

Work Order No:

1013047

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Adrian Baker	Bill to: (if different)	Adrian Baker
Company Name:	LT Environmental, Inc., Permian office	Company Name:	LT Environmental
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	Adrian.Baker@ltenv.com

Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> C <input type="checkbox"/> Deepfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	West Unit #12	Turn Around	
Project Number:	22P-4347	Routine	<input checked="" type="checkbox"/>
P.O. Number:		Rush:	<input type="checkbox"/>
Sampler's Name:	Lydia Lumbard	Due Date:	04/07
<b>SAMPLE RECEIPT</b>			
Temperature (°C):	41/4.0	Temp Blank:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	P8
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.1
Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
Bakgrund 1	S	02/05/2019	11:20	0.5'	1	X		Just run for chlorides
Bakgrund 2	S		12:00	0.5'	2	X		
Bakgrund 3	S		12:10	0.5'	2	X		
Bakgrund 4	S		12:15	0.5'	2	X		
Bakgrund 5	S		12:27	0.5'	1	X		
East Bakgrund 6	S		12:35	Surface	2	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		02/05/2019 11:33			2/5/19 13:30



Client: LT Environmental, Inc.

Date/ Time Received: 02/06/2019 12:00:00 PM

Work Order #: 613647

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

## Sample Receipt Checklist

## Comments

#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 02/06/2019

Checklist reviewed by:

Jessica Kramer

Date: 02/06/2019

# APPENDIX C



## XTO Energy – Nash Unit #12

Unit Letter H, I & L of Section 12, T23S, R29E



Spraying Micro-Blaze® and sock placement 8/3/17



Absorbent sock placement 8/3/17



Absorbent sock placement 8/3/17



Absorbent sock placement 8/3/17

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 453786

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 453786
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAB1722948770
Incident Name	NAB1722948770 NASH UNIT #012 @ 30-015-27602
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-27602] NASH UNIT #012

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NASH UNIT #012
Date Release Discovered	07/29/2017
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	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 4 BBL   Recovered: 1 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 22 BBL   Recovered: 3 BBL   Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 453786

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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 safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 04/21/2025
--	--



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QUESTIONS, Page 3

Action 453786

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	453786
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 100 and 200 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	56200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	73.4
GRO+DRO (EPA SW-846 Method 8015M)	73.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	07/31/2017
On what date will (or did) the final sampling or liner inspection occur	07/14/2023
On what date will (or was) the remediation complete(d)	07/14/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 453786

**QUESTIONS (continued)**

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	Action Number:  453786
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<b>No</b>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<b>Yes</b>
Other Non-listed Remedial Process. Please specify	<b>No impacts identified following in situ remediation</b>
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: <a href="mailto:colton.s.brown@exxonmobil.com">colton.s.brown@exxonmobil.com</a> Date: 04/21/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 453786

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453786
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 453786

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 453786
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	453818
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/14/2023
What was the (estimated) number of samples that were to be gathered	103
What was the sampling surface area in square feet	20500

**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	0
What was the total volume (cubic yards) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Soil sampling activities were conducted at the Site to address the July 29, 2017, crude oil and produced water release. Laboratory analytical results for soil samples collected within the release extent, from depths ranging from 0.5 feet to 2 feet bgs, indicated that BTEX and TPH concentrations were compliant with the Site Closure Criteria, successfully confirming the effectiveness of the in-situ remediation micro-blaze application. Chloride concentrations were elevated as a result naturally occurring conditions associated with the adjacent playa lake. XTO believes these remedial actions are protective of human health, the environment, and groundwater.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 04/21/2025
--	--

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QUESTIONS, Page 7

Action 453786

QUESTIONS (continued)

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	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 453786

**CONDITIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453786
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation closure approved. A reclamation and revegetation report are still required to be submitted for this release, however a variance can be requested due to the high concentration of chlorides. All variance requests must comply with 19.15.29.14 NMAC.	5/15/2025