



July 27, 2022

District 1  
New Mexico Oil Conservation Division  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Closure Request  
King Cobra 2 State 001H  
Incident Number NAPP2205234848  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document excavation and soil sampling activities performed at the King Cobra 2 State 001H (Site). The purpose of the excavation and soil sampling activities was to address stained soil resulting from a crude oil flare fire at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2205234848.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit A, Section 02, Township 19 South, Range 34 East, in Lea County, New Mexico (32.69537° N, 103.52385° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On February 6, 2022, high pressure fluids were pushed through the flare, resulting in approximately 0.008 barrels (bbls) of crude oil released through the flare. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on February 7, 2022 and submitted a Release Notification Form C-141 (Form C-141) on February 21, 2022. The release was assigned Incident Number NAPP2205234848.

#### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-11934, located approximately 0.37 miles northwest of the Site. The groundwater well has a reported depth to

groundwater of 105 feet bgs and a total depth of 160 feet bgs. Ground surface elevation at the groundwater well location is 3,983 feet above mean sea level (amsl), which is approximately 8 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 487 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is greater than 1,000 feet to a freshwater well. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

## EXCAVATION AND SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On May 4, 2022, Ensolum personnel were at the Site to oversee excavation activities based on information provided on the Form C-141 and visible staining in the release area. Excavation activities were performed using a track-mounted backhoe, hand shovels, and a transport vehicle. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 0.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the stained soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at a depth of 0.5 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The excavation area measured approximately 535 square feet in areal extent. A total of approximately 10 cubic yards of stained soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. The excavation extent and soil sample locations are presented on Figure 2.

Additionally, four lateral delineation soil samples (SS01 through SS04) were collected around the release extent at a depth of 0.3 feet bgs to confirm the lateral extent of the release.

Laboratory analytical results for excavation floor samples FS01 through FS03 and lateral delineation soil samples SS01 through SS04 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 2022, crude oil flare fire release. Laboratory analytical results for the excavation soil samples and lateral delineation soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of stained soil has mitigated impacts at this Site. COG believes the remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2205234848. The Final C-141 is included in Appendix E.

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

Sincerely,  
**Ensolum, LLC**



Kalei Jennings  
Senior Scientist



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

cc: Charles Beauvais, COG Operating, LLC  
New Mexico State Land Office

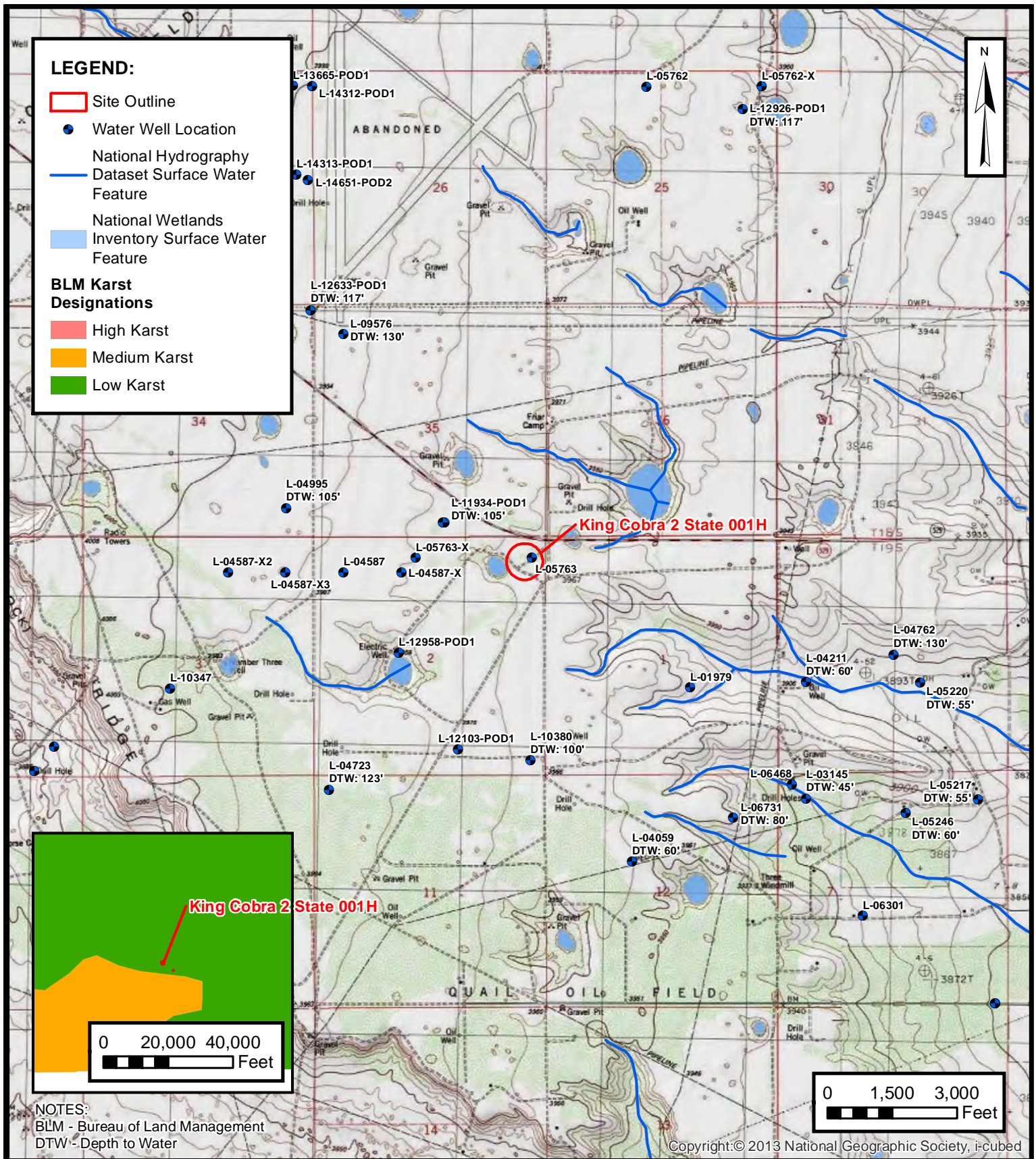
### Appendices:

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

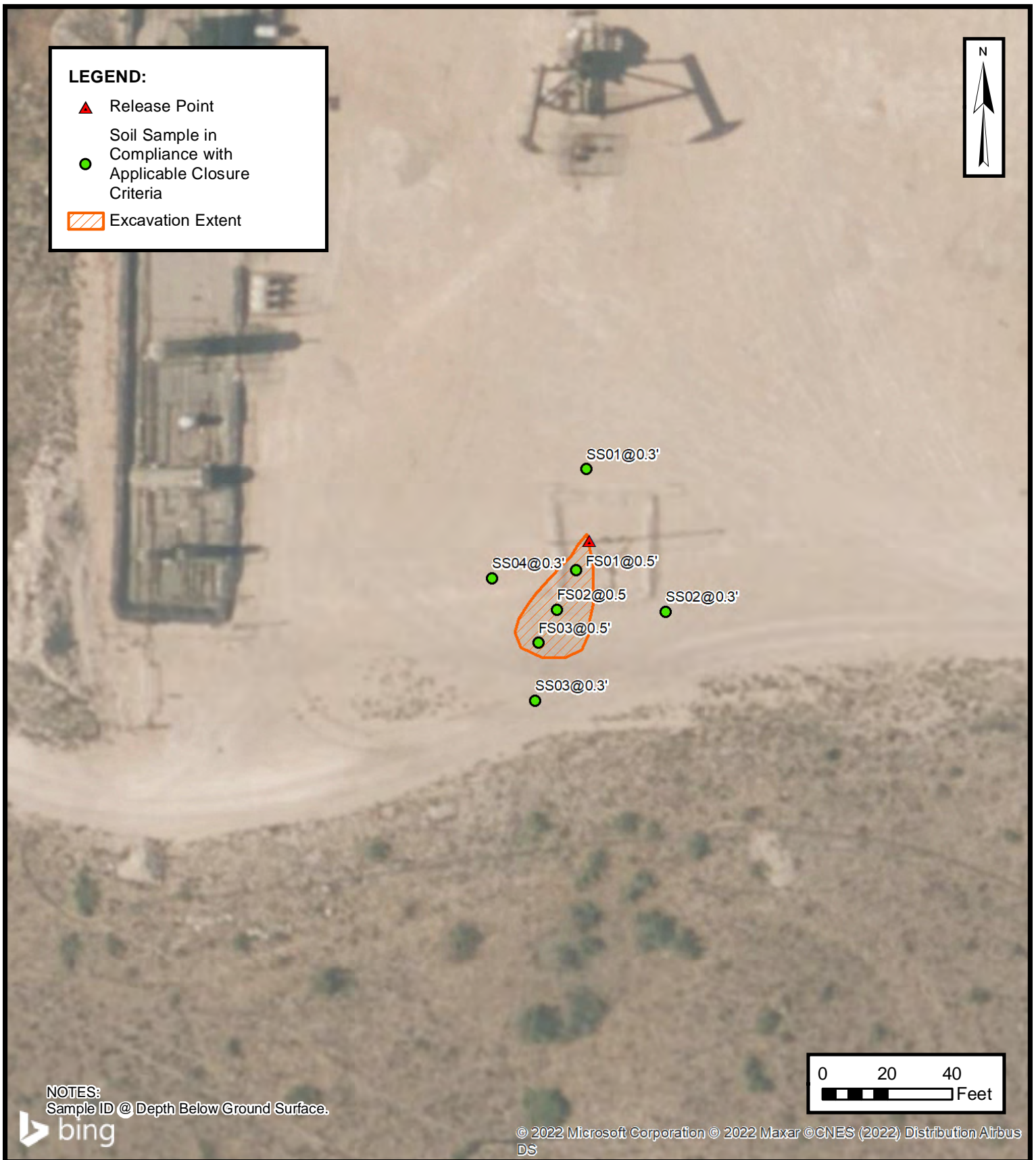


FIGURES









#### SOIL SAMPLE LOCATIONS

COG OPERATING, LLC  
KING COBRA 2 STATE 001H  
NAPP2205234848  
Unit A, Sec 2 T19S R34E  
Lea County, New Mexico

**FIGURE**  
**2**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 King Cobra 2 State 001H  
 ConocoPhillips Company  
 Lea County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Preliminary Assessment Soil Samples            |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01   | 05/04/2022  | 0.3                     | <0.000385       | <0.00101           | <15.0           | 23.3            | <15.0           | 23.3            | 23.3              | 168              |
| SS02   | 05/04/2022  | 0.3                     | <0.000387       | <0.00101           | <15.0           | 28.8            | <15.0           | 28.8            | 28.8              | 494              |
| SS03   | 05/04/2022  | 0.3                     | <0.000389       | <0.00102           | <15.0           | 26.0            | <15.0           | 26.0            | 26.0              | 92.5             |
| SS04   | 05/04/2022  | 0.3                     | <0.000386       | <0.00101           | <14.9           | 26.3            | <14.9           | 26.3            | 26.3              | 80.1             |
| Excavation Floor Soil Samples                  |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01   | 05/04/2022  | 0.5                     | <0.000389       | <0.00102           | <15.0           | 90.6            | <15.0           | 90.6            | 90.6              | 124              |
| FS02   | 05/04/2022  | 0.5                     | <0.000387       | <0.00102           | 26.5            | 69.1            | <15.0           | 95.6            | 96.0              | 185              |
| FS03   | 05/04/2022  | 0.5                     | <0.000388       | <0.00102           | <15.0           | 33.5            | <15.0           | 33.5            | 33.5              | 9.75             |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated





## APPENDIX A

### Referenced Well Records

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# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

WR File Number: L 11934

Subbasin: L

Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres:

Subfile: -


Header: -

Total Diversion: 3

Cause/Case: -


Owner: WILBERTA TIVIS

### Documents on File

|  | Trn #  | Doc   | File/Act   | Status |     | Transaction Desc. | From/<br>To | Acres | Diversion | Consumptive |
|--|--------|-------|------------|--------|-----|-------------------|-------------|-------|-----------|-------------|
|  |        |       |            | 1      | 2   |                   |             |       |           |             |
|  <a href="#">get images</a> | 490622 | 72121 | 2006-06-29 | PMT    | LOG | L 11934           | T           |       | 3         |             |

### Current Points of Diversion

(NAD83 UTM in meters)

| POD Number                   | Well Tag | Source  | Q | 64Q16Q4Sec | Tws | Rng        | X      | Y        | Other Location Desc   |
|------------------------------|----------|---------|---|------------|-----|------------|--------|----------|---|
| <a href="#">L 11934 POD1</a> |          | Shallow | 3 | 3          | 4   | 35 18S 34E | 637806 | 3618744* |  |

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

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.


3/8/22 3:48 PM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                 |                   |                                    |            |           |            |                       |            |          |  |
|-----------------|-------------------|------------------------------------|------------|-----------|------------|-----------------------|------------|----------|--|
|                 |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |            |           |            |                       |            |          |  |
|                 |                   | (quarters are smallest to largest) |            |           |            | (NAD83 UTM in meters) |            |          |  |
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64</b>                         | <b>Q16</b> | <b>Q4</b> | <b>Sec</b> | <b>Tws</b>            | <b>Rng</b> | <b>X</b> | <b>Y</b>   |
| L               | 11934 POD1        | 3                                  | 3          | 4         | 35         | 18S                   | 34E        | 637806   | 3618744*  |

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**Driller License:** 1414      **Driller Company:** NOT FOR HIRE-DESERT SAND WATER WELL

**Driller Name:** THOMPSON, STEVE (LD)

**Drill Start Date:** 10/13/2006      **Drill Finish Date:** 10/20/2006      **Plug Date:**

**Log File Date:** 10/24/2006      **PCW Rev Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:** 5.00      **Depth Well:** 160 feet      **Depth Water:** 105 feet

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|                                       |            |               |                               |
|---------------------------------------|------------|---------------|-------------------------------|
| <b>Water Bearing Stratifications:</b> | <b>Top</b> | <b>Bottom</b> | <b>Description</b>            |
|                                       | 105        | 160           | Sandstone/Gravel/Conglomerate |

---

|                             |            |               |
|-----------------------------|------------|---------------|
| <b>Casing Perforations:</b> | <b>Top</b> | <b>Bottom</b> |
|                             | 100        | 160           |

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\*UTM location was derived from PLSS - see Help

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.

3/8/22 3:48 PM

POINT OF DIVERSION SUMMARY



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## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category:  Geographic Area:

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

## USGS 324107103301101 19S.35E.06.133314

Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°41'25", Longitude 103°30'17" NAD27  
Lea County, New Mexico , Hydrologic Unit 13070007  
Well depth: 130 feet  
Land surface altitude: 3,922.00 feet above NGVD29.  
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.  
Well completed in "Ogallala Formation" (121OGLL) local aquifer

#### AVAILABLE DATA:

| Data Type  | Begin Date                          | End Date   | Count |
|--|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1961-03-09                          | 1996-02-01 | 8     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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**Title: NWIS Site Information for USA: Site Inventory**

**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324107103301101)**

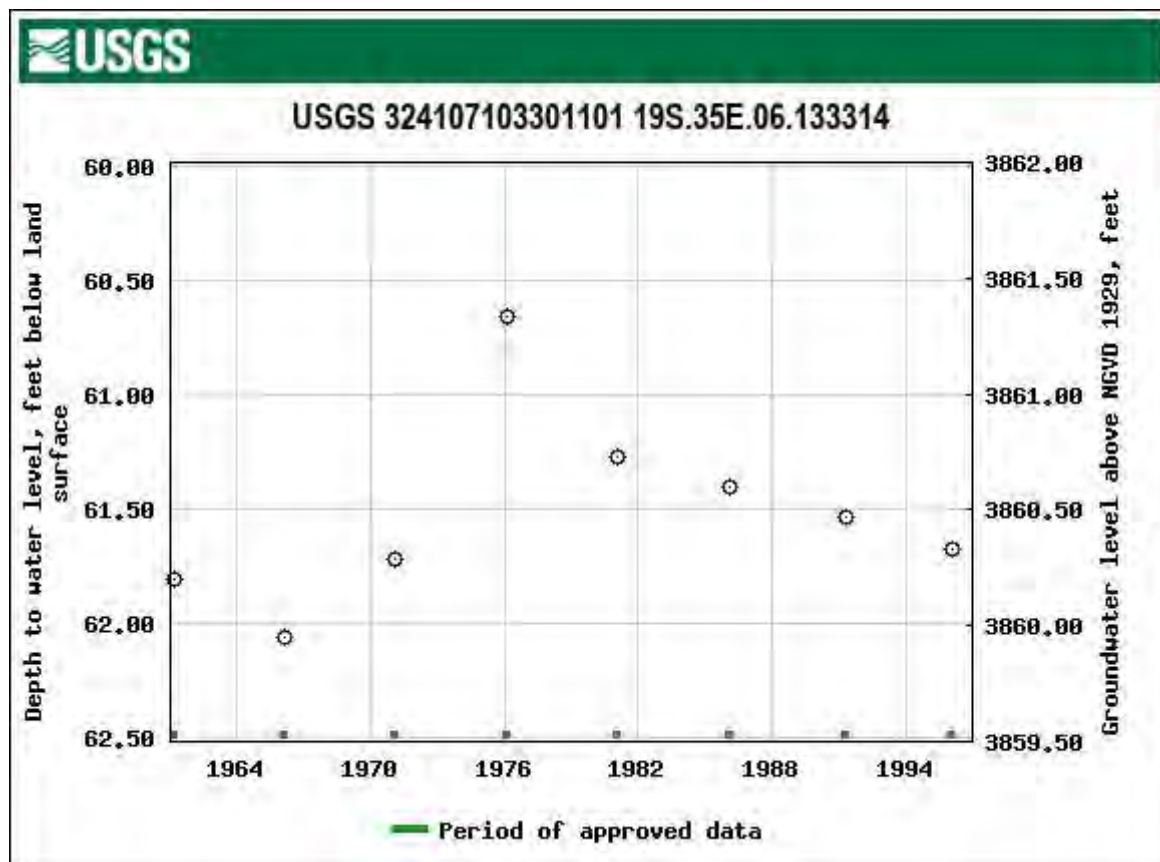
**[agency\\_code=USGS&site\\_no=324107103301101](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324107103301101)**



Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2022-03-08 17:11:22 EST

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## APPENDIX B

### Photographic Log

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**Photographic Log**  
 COG Operating, LLC  
 King Cobra 2 State 001H  
 Incident Number NAPP2205234848



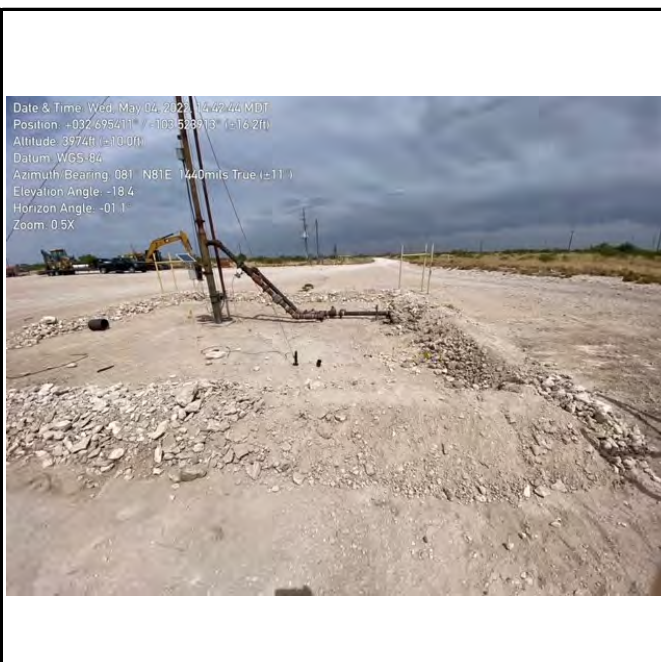
Photograph 1 Date: May 4, 2022  
 Description: Photo of release extent prior to excavation activities.



Photograph 2 Date: May 4, 2022  
 Description: Photo of release extent prior to excavation activities.



Photograph 3 Date: May 4, 2022  
 Description: Photo of completed excavation extent.



Photograph 4 Date: May 4, 2022  
 Description: Photo of completed excavation extent.





## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 880-14487-1

Client Project/Site: King Cobra 2 State 1H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/16/2022 11:43:13 AM

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

### LINKS

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results through  
**TotalAccess**

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Laboratory Job ID: 880-14487-1

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## Definitions/Glossary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

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

## Glossary

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

Eurofins Midland



## Case Narrative

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

**Job ID: 880-14487-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-14487-1****Receipt**

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

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-24993 and analytical batch 880-25019 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

Client Sample ID: SS01

Lab Sample ID: 880-14487-1

Date Collected: 05/04/22 14:47

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.3'

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000385 | U         | 0.00200 | 0.000385 mg/Kg |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| Toluene             | <0.000456 | U         | 0.00200 | 0.000456 mg/Kg |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| Ethylbenzene        | <0.000565 | U         | 0.00200 | 0.000565 mg/Kg |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| m-Xylene & p-Xylene | <0.00101  | U         | 0.00400 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| o-Xylene            | <0.000344 | U         | 0.00200 | 0.000344 mg/Kg |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| Xylenes, Total      | <0.00101  | U         | 0.00400 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 20:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 20:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 20:09 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U         | 0.00400 | 0.00101 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 23.3   | J         | 50.0 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0  | U         | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:10 | 1       |
| Diesel Range Organics (Over C10-C28) | 23.3   | J B       | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0  | U         | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:10 | 1       |
| Total TPH                            | 23.3   | J B       | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:10 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:10 | 1       |
| o-Terphenyl    | 114       |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:10 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Chloride | 168    |           | 25.2 | 4.32 mg/Kg |   |          | 05/11/22 13:44 | 5       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14487-1                       | SS01                   | 106  | 101               |
| 880-14491-A-1-E MS                | Matrix Spike           | 109  | 104               |
| 880-14491-A-1-F MSD               | Matrix Spike Duplicate | 87   | 99                |
| LCS 880-25310/1-A                 | Lab Control Sample     | 95   | 101               |
| LCSD 880-25310/2-A                | Lab Control Sample Dup | 96   | 107               |
| MB 880-25310/5-A                  | Method Blank           | 74   | 96                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14444-A-10-C MS     | Matrix Spike           | 80   | 72                |
| 880-14444-A-10-D MSD    | Matrix Spike Duplicate | 86   | 76                |
| 880-14487-1             | SS01                   | 101  | 114               |
| LCS 880-24993/2-A       | Lab Control Sample     | 85   | 84                |
| LCSD 880-24993/3-A      | Lab Control Sample Dup | 80   | 78                |
| MB 880-24993/1-A        | Method Blank           | 92   | 106               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

Eurofins Midland

## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

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

Lab Sample ID: MB 880-25310/5-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCS 880-25310/1-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25310

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

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 95               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-25310/2-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25310

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

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 96                |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107               |                   | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

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

Lab Sample ID: MB 880-24993/1-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | MB Result | MB Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Diesel Range Organics (Over C10-C28) | 20.58     | J            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Total TPH                            | 20.58     | J            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92           |              | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| o-Terphenyl    | 106          |              | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

Lab Sample ID: LCS 880-24993/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 960.1      |               | mg/Kg |   | 96   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 873.5      |               | mg/Kg |   | 87   | 70 - 130    |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 85            |               | 70 - 130 |
| o-Terphenyl    | 84            |               | 70 - 130 |

Lab Sample ID: LCSD 880-24993/3-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 956.9       |                | mg/Kg |   | 96   | 70 - 130    | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 803.7       |                | mg/Kg |   | 80   | 70 - 130    | 8   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 80             |                | 70 - 130 |
| o-Terphenyl    | 78             |                | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Method Blank

Prep Type: Soluble

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

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QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

|                                  |             |            |               |       |                                      |      |             |  |  |
|----------------------------------|-------------|------------|---------------|-------|--------------------------------------|------|-------------|--|--|
| Lab Sample ID: LCS 880-24971/2-A |             |            |               |       | Client Sample ID: Lab Control Sample |      |             |  |  |
| Matrix: Solid                    |             |            |               |       | Prep Type: Soluble                   |      |             |  |  |
| Analysis Batch: 25317            |             |            |               |       |                                      |      |             |  |  |
| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit  | D                                    | %Rec | %Rec Limits |  |  |
| Chloride                         | 250         | 247.0      |               | mg/Kg |                                      | 99   | 90 - 110    |  |  |

|                                   |             |             |                |       |  |      |             |     |           |
|-----------------------------------|-------------|-------------|----------------|-------|--|------|-------------|-----|-----------|
| Lab Sample ID: LCSD 880-24971/3-A |             |             |                |       | Client Sample ID: Lab Control Sample Dup |      |             |     |           |
| Matrix: Solid                     |             |             |                |       | Prep Type: Soluble                       |      |             |     |           |
| Analysis Batch: 25317             |             |             |                |       |  |      |             |     |           |
| Analyte                           | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D  | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride                          | 250         | 245.4       |                | mg/Kg |  | 98   | 90 - 110    | 1   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

## GC VOA

## Prep Batch: 25310

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14487-1        | SS01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25497

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14487-1        | SS01                   | Total/NA  | Solid  | 8021B  | 25310      |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25310      |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25310      |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25310      |

## Analysis Batch: 25571

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14487-1   | SS01             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 24993

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14487-1        | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14487-1        | SS01                   | Total/NA  | Solid  | 8015B NM | 24993      |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 24993      |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 24993      |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 24993      |

## Analysis Batch: 25118

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14487-1   | SS01             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 24971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14487-1        | SS01                   | Soluble   | Solid  | DI Leach |            |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25317

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14487-1        | SS01                   | Soluble   | Solid  | 300.0  | 24971      |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 24971      |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 24971      |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 24971      |

Eurofins Midland

Lab Chronicle

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

**Client Sample ID: SS01**  
**Date Collected: 05/04/22 14:47**  
**Date Received: 05/06/22 10:35**

**Lab Sample ID: 880-14487-1**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 20:09       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25571        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25118        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 24993        | 05/06/22 14:42       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/07/22 20:10       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 25317        | 05/11/22 13:44       | CH      | XEN MID |

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: Ensolum

Job ID: 880-14487-1

Project/Site: King Cobra 2 State 1H

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Eurofins Midland



Sample Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14487-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-14487-1   | SS01             | Solid  | 05/04/22 14:47 | 05/06/22 10:35 | 0.3'  |

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



## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 505-3334  
Midland TX (432) 704-5440 El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900  
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 889-6701  
Atlanta GA (770) 449-8600

Atlanta GA (770) 449-8800

Work Order No: 14487


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|                 |                |       |                        |                |
|-----------------|----------------|-------|------------------------|----------------|
| Project Manager | Kalei Jennings |       | Bill to (if different) | Kalei Jennings |
| Company Name    | Ensolvum       |       | Company Name           |                |
| Address         |                |       | Address                |                |
| City State ZIP  |                |       | City State ZIP         |                |
| Phone           | 017-693-2503   | Email | Kjennings@ensolvum.com |                |

| Work Order Comments |   |   |                                      |   |
|---------------------|---|---|--------------------------------------|---|
| Program             | UST/ST <input type="checkbox"/>             | PRP <input type="checkbox"/>  | Brownfields <input type="checkbox"/> | RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project    |   |   |                                      |   |
| Reporting Level     | <input checked="" type="checkbox"/> Level 1 | <input type="checkbox"/> PST/US <input type="checkbox"/> TRR <input type="checkbox"/> Level 1 |                                      |   |
| Deliverables        | EDD <input checked="" type="checkbox"/>     | ADAPT <input type="checkbox"/>  | Other                                |   |

[illegible]

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number | TA | BTE | CHL | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|--------|----|-----|-----|-----------------|
| SS01                  | SL     | 5-4-22       | 1447         | 0.3'  | 1      | X  | X   | X   |                 |



880-14487 Chain of Custody



880-14487 Chain of Custody

| Total | 200.7 / 6010 | 200.8 / 6020: | Circle Method(s) and Metals(s) to be analyzed   |
|-------|--------------|---------------|---|
| 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 / 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 Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro 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 Xencro. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencro, 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>Shana Green</i>        | <i>UFI R</i>            | 8/6/22    | 2                           |                         |           |
| 3                           |                         | 10:35     | 4                           |                         |           |
| 5                           |                         |           | 6                           |                         |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14487-1

Login Number: 14487

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 880-14488-1  
Client Project/Site: King Cobra 2 State 1H

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

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/16/2022 11:38:26 AM

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

#### LINKS

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

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

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Laboratory Job ID: 880-14488-1

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## Definitions/Glossary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| 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   |

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## Case Narrative

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

**Job ID: 880-14488-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-14488-1****Receipt**

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

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-24993 and analytical batch 880-25019 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

Client Sample ID: SS02

Lab Sample ID: 880-14488-1

Date Collected: 05/04/22 14:51

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.3

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000387 | U         | 0.00201 | 0.000387 mg/Kg |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| Toluene             | <0.000458 | U         | 0.00201 | 0.000458 mg/Kg |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| Ethylbenzene        | <0.000567 | U         | 0.00201 | 0.000567 mg/Kg |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| m-Xylene & p-Xylene | <0.00101  | U         | 0.00402 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| o-Xylene            | <0.000345 | U         | 0.00201 | 0.000345 mg/Kg |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| Xylenes, Total      | <0.00101  | U         | 0.00402 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 18:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 18:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 18:51 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U         | 0.00402 | 0.00101 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 28.8   | J         | 49.9 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0  | U         | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:31 | 1       |
| Diesel Range Organics (Over C10-C28) | 28.8   | J B       | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0  | U         | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:31 | 1       |
| Total TPH                            | 28.8   | J B       | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:31 | 1       |
| o-Terphenyl    | 85        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:31 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 494    | F1        | 5.05 | 0.867 mg/Kg |   |          | 05/11/22 13:53 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14488-1                       | SS02                   | 101  | 95                |
| 880-14491-A-1-E MS                | Matrix Spike           | 109  | 104               |
| 880-14491-A-1-F MSD               | Matrix Spike Duplicate | 87   | 99                |
| LCS 880-25310/1-A                 | Lab Control Sample     | 95   | 101               |
| LCSD 880-25310/2-A                | Lab Control Sample Dup | 96   | 107               |
| MB 880-25310/5-A                  | Method Blank           | 74   | 96                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14444-A-10-C MS     | Matrix Spike           | 80   | 72                |
| 880-14444-A-10-D MSD    | Matrix Spike Duplicate | 86   | 76                |
| 880-14488-1             | SS02                   | 81   | 85                |
| LCS 880-24993/2-A       | Lab Control Sample     | 85   | 84                |
| LCSD 880-24993/3-A      | Lab Control Sample Dup | 80   | 78                |
| MB 880-24993/1-A        | Method Blank           | 92   | 106               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

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

Lab Sample ID: MB 880-25310/5-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCS 880-25310/1-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCSD 880-25310/2-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25310

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

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

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

Lab Sample ID: MB 880-24993/1-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | MB<br>Result | MB<br>Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0        | U               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Diesel Range Organics (Over C10-C28) | 20.58        | J               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0        | U               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Total TPH                            | 20.58        | J               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92              |                 | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| o-Terphenyl    | 106             |                 | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

Lab Sample ID: LCS 880-24993/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 960.1         |                  | mg/Kg |   | 96   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000           | 873.5         |                  | mg/Kg |   | 87   | 70 - 130       |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 85               |                  | 70 - 130 |
| o-Terphenyl    | 84               |                  | 70 - 130 |

Lab Sample ID: LCSD 880-24993/3-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 956.9          |                   | mg/Kg |   | 96   | 70 - 130       | 0   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000           | 803.7          |                   | mg/Kg |   | 80   | 70 - 130       | 8   | 20           |

| Surrogate      | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|----------------|-------------------|-------------------|----------|
| 1-Chlorooctane | 80                |                   | 70 - 130 |
| o-Terphenyl    | 78                |                   | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Method Blank

Prep Type: Soluble

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24971/2-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-24971/3-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 880-14488-1 MS

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: SS02

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 494           | F1               | 253         | 699.5     | F1           | mg/Kg |   | 81   | 90 - 110    |

Lab Sample ID: 880-14488-1 MSD

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: SS02

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 494           | F1               | 253         | 702.7      | F1            | mg/Kg |   | 83   | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

## GC VOA

## Prep Batch: 25310

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14488-1        | SS02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25497

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14488-1        | SS02                   | Total/NA  | Solid  | 8021B  | 25310      |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25310      |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25310      |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25310      |

## Analysis Batch: 25568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14488-1   | SS02             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 24993

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14488-1        | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14488-1        | SS02                   | Total/NA  | Solid  | 8015B NM | 24993      |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 24993      |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 24993      |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 24993      |

## Analysis Batch: 25119

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14488-1   | SS02             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 24971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14488-1        | SS02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-14488-1 MS     | SS02                   | Soluble   | Solid  | DI Leach |            |
| 880-14488-1 MSD    | SS02                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25317

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 880-14488-1       | SS02               | Soluble   | Solid  | 300.0  | 24971      |
| MB 880-24971/1-A  | Method Blank       | Soluble   | Solid  | 300.0  | 24971      |
| LCS 880-24971/2-A | Lab Control Sample | Soluble   | Solid  | 300.0  | 24971      |

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QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

HPLC/IC (Continued)

Analysis Batch: 25317 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 24971      |
| 880-14488-1 MS     | SS02                   | Soluble   | Solid  | 300.0  | 24971      |
| 880-14488-1 MSD    | SS02                   | Soluble   | Solid  | 300.0  | 24971      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

Client Sample ID: SS02

Lab Sample ID: 880-14488-1

Date Collected: 05/04/22 14:51

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 18:51       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25568        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25119        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 24993        | 05/06/22 14:42       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/07/22 20:31       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25317        | 05/11/22 13:53       | CH      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: Ensolum

Job ID: 880-14488-1

Project/Site: King Cobra 2 State 1H

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14488-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-14488-1   | SS02             | Solid  | 05/04/22 14:51 | 05/06/22 10:35 | 0.3   |

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## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334  
Midland TX (432) 704-5440 El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 351-0900  
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6707  
Atlanta GA (770) 449-8800

**Work Order No.:**

1448

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14488-1

Login Number: 14488

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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



Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 880-14489-1

Client Project/Site: King Cobra 2 State 1H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/16/2022 11:38:56 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Laboratory Job ID: 880-14489-1

# Table of Contents

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## Definitions/Glossary

Client: Ensolum

Job ID: 880-14489-1

Project/Site: King Cobra 2 State 1H

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

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

## Glossary

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

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## Case Narrative

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

**Job ID: 880-14489-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-14489-1****Receipt**

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

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-24993 and analytical batch 880-25019 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

Client Sample ID: SS03

Lab Sample ID: 880-14489-1

Date Collected: 05/04/22 14:56

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.3

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000389 | U         | 0.00202 | 0.000389 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| Toluene             | <0.000461 | U         | 0.00202 | 0.000461 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| Ethylbenzene        | <0.000571 | U         | 0.00202 | 0.000571 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| m-Xylene & p-Xylene | <0.00102  | U         | 0.00404 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| o-Xylene            | <0.000347 | U         | 0.00202 | 0.000347 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| Xylenes, Total      | <0.00102  | U         | 0.00404 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 19:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 19:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 19:17 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00102 | U         | 0.00404 | 0.00102 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 26.0   | J         | 49.9 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0  | U         | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:53 | 1       |
| Diesel Range Organics (Over C10-C28) | 26.0   | J B       | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0  | U         | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:53 | 1       |
| Total TPH                            | 26.0   | J B       | 49.9 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 20:53 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:53 | 1       |
| o-Terphenyl    | 92        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 20:53 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 92.5   |           | 5.01 | 0.860 mg/Kg |   |          | 05/11/22 14:21 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14489-1                       | SS03                   | 99   | 96                |
| 880-14491-A-1-E MS                | Matrix Spike           | 109  | 104               |
| 880-14491-A-1-F MSD               | Matrix Spike Duplicate | 87   | 99                |
| LCS 880-25310/1-A                 | Lab Control Sample     | 95   | 101               |
| LCSD 880-25310/2-A                | Lab Control Sample Dup | 96   | 107               |
| MB 880-25310/5-A                  | Method Blank           | 74   | 96                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14444-A-10-C MS     | Matrix Spike           | 80   | 72                |
| 880-14444-A-10-D MSD    | Matrix Spike Duplicate | 86   | 76                |
| 880-14489-1             | SS03                   | 90   | 92                |
| LCS 880-24993/2-A       | Lab Control Sample     | 85   | 84                |
| LCSD 880-24993/3-A      | Lab Control Sample Dup | 80   | 78                |
| MB 880-24993/1-A        | Method Blank           | 92   | 106               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

Eurofins Midland



## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

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

Lab Sample ID: MB 880-25310/5-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCS 880-25310/1-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCSD 880-25310/2-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25310

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

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

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

Lab Sample ID: MB 880-24993/1-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | MB<br>Result | MB<br>Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0        | U               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Diesel Range Organics (Over C10-C28) | 20.58        | J               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0        | U               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Total TPH                            | 20.58        | J               | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92              |                 | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| o-Terphenyl    | 106             |                 | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

Lab Sample ID: LCS 880-24993/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 960.1         |                  | mg/Kg |   | 96   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000           | 873.5         |                  | mg/Kg |   | 87   | 70 - 130       |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 85               |                  | 70 - 130 |
| o-Terphenyl    | 84               |                  | 70 - 130 |

Lab Sample ID: LCSD 880-24993/3-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 956.9          |                   | mg/Kg |   | 96   | 70 - 130       | 0   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000           | 803.7          |                   | mg/Kg |   | 80   | 70 - 130       | 8   | 20           |

| Surrogate      | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|----------------|-------------------|-------------------|----------|
| 1-Chlorooctane | 80                |                   | 70 - 130 |
| o-Terphenyl    | 78                |                   | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Method Blank

Prep Type: Soluble

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24971/2-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-24971/3-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

## GC VOA

## Prep Batch: 25310

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14489-1        | SS03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25497

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14489-1        | SS03                   | Total/NA  | Solid  | 8021B  | 25310      |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25310      |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25310      |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25310      |

## Analysis Batch: 25569

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14489-1   | SS03             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 24993

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14489-1        | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14489-1        | SS03                   | Total/NA  | Solid  | 8015B NM | 24993      |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 24993      |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 24993      |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 24993      |

## Analysis Batch: 25120

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14489-1   | SS03             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 24971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14489-1        | SS03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25317

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14489-1        | SS03                   | Soluble   | Solid  | 300.0  | 24971      |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 24971      |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 24971      |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 24971      |

Eurofins Midland

## Lab Chronicle

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

Client Sample ID: SS03

Lab Sample ID: 880-14489-1

Date Collected: 05/04/22 14:56

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 19:17       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25569        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25120        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 24993        | 05/06/22 14:42       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/07/22 20:53       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25317        | 05/11/22 14:21       | CH      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: Ensolum

Job ID: 880-14489-1

Project/Site: King Cobra 2 State 1H

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14489-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-14489-1   | SS03             | Solid  | 05/04/22 14:56 | 05/06/22 10:35 | 0.3   |

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





## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334  
Midland TX (432) 704-5440 El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 335-0900  
Tampa FL (813) 620-2000 Tallahassee FL (904) 756-0747 Delray Beach FL (561) 689-6701  
Atlanta GA (770) 449-8800


Work Order No. 14405

Page 1 of 1

|                 |                |                        |                        |
|-----------------|----------------|------------------------|------------------------|
| Project Manager | Kalel Jennings | Bill to (if different) | Kalel Jennings         |
| Company Name    | ENSOLium       | Company Name           |                        |
| Address         |                | Address                |                        |
| City State ZIP  |                | City State ZIP         |                        |
| Phone           | 917-663-7503   | Email                  | Kjennings@ensolium.com |

| Work Order Comments  |  |
|--|--|
| Program UST/ST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br>State of Project<br>Reporting Level <input checked="" type="checkbox"/> Level I <input type="checkbox"/> PST/UST <input type="checkbox"/> TRR <input type="checkbox"/> Level II <input type="checkbox"/><br>Deliverables EDD <input checked="" type="checkbox"/> ADAPT <input type="checkbox"/> Other |  |

|  |  |   |  |   |  |                   |  |   |  |  |  |  |  |  |  |
|--|--|---|--|---|--|-------------------|--|---|--|--|--|--|--|--|--|
| Project Name   |  | Kinghorn 2 Strat 1H   |  |   |  |                   |  |   |  |  |  | Turn Around  |  |  |  |
| Project Number   |  |   |  |   |  |                   |  |   |  |  |  | Routine <input type="checkbox"/>   |  |  |  |
| Project Location   |  |   |  |   |  |                   |  |   |  |  |  | Rush <input type="checkbox"/>  |  |  |  |
| Sampler's Name   |  | Hadiu Green   |  |   |  |                   |  |   |  |  |  | Due Date   |  |  |  |
| PO #   |  |   |  |   |  |                   |  |   |  |  |  |  |  |  |  |
| <b>SAMPLE RECEIPT</b>  |  | Temp Blank  |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  | Wet Ice           |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |  |  |  |  |  |  |
| Temperature (°C)   |  | 4.2/10  |  |   |  | Thermometer ID    |  |   |  |  |  |  |  |  |  |
| Received intact:   |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |   |  |                   |  |   |  |  |  |  |  |  |  |
| Cooler Custody Seals   |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |   |  | Correction Factor |  |   |  |  |  |  |  |  |  |
| Sample Custody Seals   |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |   |  | Total Containers  |  |   |  |  |  |  |  |  |  |
| Number of Containers/Preservative Code<br>1 8015<br>EX 8021<br>BK1 DES 300 |  |   |  |   |  |                   |  |   |  |  |  | <b>ANALYSIS REQUEST</b><br>HNO3 HN<br>H2SO4 H2<br>HCL HL<br>None NO<br>NaOH Na<br>MeOH Me<br>Zn Acetate+ NaOH Zn |  |  |  |
| TAT starts the day received by the lab if received by 4:30pm               |  |   |  |   |  |                   |  |   |  |  |  |  |  |  |  |

| Sample Identification   | Matrix | Date Sampled | Time Sampled | Depth | Number | TPH | BTE | CHL | Sample Comments |
|---|--------|--------------|--------------|-------|--------|-----|-----|-----|-----------------|
| SS03  | SL     | 5-4-22       | 1456         | 0.3   | 1      | X   | X   | X   |                 |
| <br>880-14489 Chain of Custody |        |              |              |       |        |     |     |     |                 |

880-1 4489 Chain of Custody



|  |                    |                  |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |      |    |    |    |    |   |   |    |
|--|--------------------|------------------|-------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------|----|----|----|----|---|---|----|
| <b>Total 200.7 / 6010</b>  | <b>200.8 6020:</b> | 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 |
| <i>Circle Method(s) and Metal(s) to be analyzed</i>  |                    | TCLP / SPLP 6010 | 8RCRA | Sb       | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  |    |    |   |    |    |      |    |    |    |    |   |   |    |
| <p>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.</p> |                    |                  |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |      |    |    |    |    |   |   |    |
| <p>1631 / 245.1 / 7470 / 7471 Hg</p>   |                    |                  |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |      |    |    |    |    |   |   |    |

| Relinquished by (Signature) | Received by (Signature) | Date/Time     | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|---------------|-----------------------------|-------------------------|-----------|
| 1 <i>M. Madhu Cvr</i>       | <i>UFT R</i>            | <i>5/6/22</i> | 2                           |                         |           |
| 3                           |                         | <i>10:35</i>  | 4                           |                         |           |
| 5                           |                         |               | 6                           |                         |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14489-1

Login Number: 14489

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
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Laboratory Job ID: 880-14490-1

Client Project/Site: King Cobra 2 State 1H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/16/2022 11:43:39 AM

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

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

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Laboratory Job ID: 880-14490-1

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## Definitions/Glossary

Client: Ensolum

Job ID: 880-14490-1

Project/Site: King Cobra 2 State 1H

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

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

## Glossary

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

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## Case Narrative

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

**Job ID: 880-14490-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-14490-1****Receipt**

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

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-24993 and analytical batch 880-25019 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

Client Sample ID: SS04

Lab Sample ID: 880-14490-1

Date Collected: 05/04/22 14:59

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.3

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000386 | U         | 0.00200 | 0.000386 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| Toluene             | <0.000457 | U         | 0.00200 | 0.000457 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| Ethylbenzene        | <0.000566 | U         | 0.00200 | 0.000566 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| m-Xylene & p-Xylene | <0.00101  | U         | 0.00401 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| o-Xylene            | <0.000345 | U         | 0.00200 | 0.000345 mg/Kg |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| Xylenes, Total      | <0.00101  | U         | 0.00401 | 0.00101 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 19:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 19:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 19:43 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U         | 0.00401 | 0.00101 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 26.3   | J         | 49.8 | 14.9 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <14.9  | U         | 49.8 | 14.9 mg/Kg |   | 05/06/22 14:42 | 05/07/22 21:15 | 1       |
| Diesel Range Organics (Over C10-C28) | 26.3   | J B       | 49.8 | 14.9 mg/Kg |   | 05/06/22 14:42 | 05/07/22 21:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <14.9  | U         | 49.8 | 14.9 mg/Kg |   | 05/06/22 14:42 | 05/07/22 21:15 | 1       |
| Total TPH                            | 26.3   | J B       | 49.8 | 14.9 mg/Kg |   | 05/06/22 14:42 | 05/07/22 21:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 87        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 21:15 | 1       |
| o-Terphenyl    | 88        |           | 70 - 130 | 05/06/22 14:42 | 05/07/22 21:15 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 80.1   |           | 4.99 | 0.857 mg/Kg |   |          | 05/11/22 14:30 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-14490-1                       | SS04                   | 99   | 101               |
| 880-14491-A-1-E MS                | Matrix Spike           | 109  | 104               |
| 880-14491-A-1-F MSD               | Matrix Spike Duplicate | 87   | 99                |
| LCS 880-25310/1-A                 | Lab Control Sample     | 95   | 101               |
| LCSD 880-25310/2-A                | Lab Control Sample Dup | 96   | 107               |
| MB 880-25310/5-A                  | Method Blank           | 74   | 96                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14444-A-10-C MS     | Matrix Spike           | 80   | 72                |
| 880-14444-A-10-D MSD    | Matrix Spike Duplicate | 86   | 76                |
| 880-14490-1             | SS04                   | 87   | 88                |
| LCS 880-24993/2-A       | Lab Control Sample     | 85   | 84                |
| LCSD 880-24993/3-A      | Lab Control Sample Dup | 80   | 78                |
| MB 880-24993/1-A        | Method Blank           | 92   | 106               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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## QC Sample Results

Client: Ensolum

Job ID: 880-14490-1

Project/Site: King Cobra 2 State 1H

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

Lab Sample ID: MB 880-25310/5-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCS 880-25310/1-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCSD 880-25310/2-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25310

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

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

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

Lab Sample ID: MB 880-24993/1-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | MB Result | MB Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Diesel Range Organics (Over C10-C28) | 20.58     | J            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| Total TPH                            | 20.58     | J            | 50.0 | 15.0 mg/Kg |   | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92           |              | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |
| o-Terphenyl    | 106          |              | 70 - 130 | 05/06/22 14:42 | 05/07/22 12:08 | 1       |

Lab Sample ID: LCS 880-24993/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 960.1      |               | mg/Kg |   | 96   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 873.5      |               | mg/Kg |   | 87   | 70 - 130    |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 85            |               | 70 - 130 |
| o-Terphenyl    | 84            |               | 70 - 130 |

Lab Sample ID: LCSD 880-24993/3-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24993

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 956.9       |                | mg/Kg |   | 96   | 70 - 130    | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 803.7       |                | mg/Kg |   | 80   | 70 - 130    | 8   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 80             |                | 70 - 130 |
| o-Terphenyl    | 78             |                | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Method Blank

Prep Type: Soluble

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

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QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24971/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 25317

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

Lab Sample ID: LCSD 880-24971/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 25317

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

## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

## GC VOA

## Prep Batch: 25310

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14490-1        | SS04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25497

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14490-1        | SS04                   | Total/NA  | Solid  | 8021B  | 25310      |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25310      |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25310      |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25310      |

## Analysis Batch: 25570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14490-1   | SS04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 24993

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14490-1        | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14490-1        | SS04                   | Total/NA  | Solid  | 8015B NM | 24993      |
| MB 880-24993/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 24993      |
| LCS 880-24993/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 24993      |
| LCSD 880-24993/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 24993      |

## Analysis Batch: 25121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14490-1   | SS04             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 24971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14490-1        | SS04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 25317

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14490-1        | SS04                   | Soluble   | Solid  | 300.0  | 24971      |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 24971      |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 24971      |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 24971      |

Eurofins Midland

## Lab Chronicle

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

Client Sample ID: SS04

Lab Sample ID: 880-14490-1

Date Collected: 05/04/22 14:59

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 19:43       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25570        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25121        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 24993        | 05/06/22 14:42       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/07/22 21:15       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25317        | 05/11/22 14:30       | CH      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

Sample Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14490-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-14490-1   | SS04             | Solid  | 05/04/22 14:59 | 05/06/22 10:35 | 0.3   |

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





## Chain of Custody

Houston TX (261) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334  
Midland TX (432) 704-5440 El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 968-3199 Phoenix, AZ (480) 335-0900  
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701  
Atlanta GA (770) 449-8600

Work Order No. 7449D

|                 |                |                        |                        |
|-----------------|----------------|------------------------|------------------------|
| Project Manager | Kalei Jennings | Bill to (if different) | Kalei Jennings         |
| Company Name    | ENASDium       | Company Name           |                        |
| Address         |                | Address                |                        |
| City State ZIP  |                | City State ZIP         |                        |
| Phone           | 917-683-2503   | Email                  | Kjennings@enasdium.com |

**Work Order Comments**

Program ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level ☒ Level I ☐ PST/UST ☐ TRR ☐ Level IV

Deliverables EDD ☒ ADAPT ☐ Other:

|                  |                       |             |                                     |
|------------------|-----------------------|-------------|-------------------------------------|
| Project Name     | King Cabin 2 Strat 1H | Turn Around | <input checked="" type="checkbox"/> |
| Project Number   |                       | Routine     | <input checked="" type="checkbox"/> |
| Project Location |                       | Rush        | <input type="checkbox"/>            |
| Sampler's Name   | Hadliu Green          | Due Date    | 5/24/11                             |
| PO #             |                       |             |                                     |

| SAMPLE RECEIPT       |          | Temp Blank     | Yes /No                             | Wet Ice           | Yes /No                             |
|----------------------|----------|----------------|-------------------------------------|-------------------|-------------------------------------|
| Temperature (°C)     | 11.2/40  |                | <input checked="" type="checkbox"/> |                   | <input checked="" type="checkbox"/> |
| Received intact:     | (Yes) No | Thermometer ID |                                     |                   |                                     |
| Cooler Custody Seals | Yes No   | N/A            |                                     | Correction Factor |                                     |
| Sample Custody Seals | Yes No   | N/A            |                                     | Total Containers  |                                     |

| ANALYSIS REQUEST                |  |  |  |  |  |  |  |  |  | Preservative Codes  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---|
|                                 |  |  |  |  |  |  |  |  |  | HNO3 HN<br>H2SO4 H2<br>HCL HL<br>None NO<br>NaOH Na<br>MeOH Me<br>Zn Acetate+ NaOH Zn |
| 8015<br>X 8021<br>BRIDES 300    |  |  |  |  |  |  |  |  |  |   |
| of Containers/Preservative Code |  |  |  |  |  |  |  |  |  |   |

[illegible]

| Total       | 200.7 / 6010 | 200.8 / 6020: | Circle Method(s) and Metal(s) to be analyzed |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                            |    |                  |    |    |    |    |   |   |    |
|-------------|--------------|---------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----------------------------|----|------------------|----|----|----|----|---|---|----|
| 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 |
| 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 shall constitute a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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>Heather Green</i>      | <i>[Signature]</i>      | 8/10/2022 | 2                           |                         |           |
| 3 <i>[Signature]</i>        | <i>[Signature]</i>      | 10:35     | 4                           |                         |           |
| 5                           |                         |           | 6                           |                         |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14490-1

Login Number: 14490

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 880-14493-1

Client Project/Site: King Cobra 2 State 1H  
Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/24/2022 12:29:10 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Laboratory Job ID: 880-14493-1

# Table of Contents

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## Definitions/Glossary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

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

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| 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   |

Eurofins Midland

## Case Narrative

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

**Job ID: 880-14493-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-14493-1**REVISION

The report being provided is a revision of the original report sent on 5/17/2022. The report (revision 1) is being revised due to Per client email, requesting TPH re run on sample #2.

Report revision history

**Receipt**

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

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-25005 and analytical batch 880-25019 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-25829 and analytical batch 880-25770 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24971 and analytical batch 880-25317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

Client Sample ID: FS01

Lab Sample ID: 880-14493-1

Date Collected: 05/04/22 14:00

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.5

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000389 | U         | 0.00202 | 0.000389 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| Toluene             | <0.000461 | U         | 0.00202 | 0.000461 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| Ethylbenzene        | <0.000571 | U         | 0.00202 | 0.000571 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| m-Xylene & p-Xylene | <0.00102  | U         | 0.00404 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| o-Xylene            | <0.000347 | U         | 0.00202 | 0.000347 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| Xylenes, Total      | <0.00102  | U         | 0.00404 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 21:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 21:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 21:01 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00102 | U         | 0.00404 | 0.00102 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 90.6   |           | 50.0 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0  | U         | 50.0 | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/07/22 23:03 | 1       |
| Diesel Range Organics (Over C10-C28) | 90.6   | B         | 50.0 | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/07/22 23:03 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0  | U         | 50.0 | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/07/22 23:03 | 1       |
| Total TPH                            | 90.6   | B         | 50.0 | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/07/22 23:03 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 130 | 05/06/22 17:12 | 05/07/22 23:03 | 1       |
| o-Terphenyl    | 98        |           | 70 - 130 | 05/06/22 17:12 | 05/07/22 23:03 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 124    |           | 4.95 | 0.850 mg/Kg |   |          | 05/11/22 15:44 | 1       |

Client Sample ID: FS02

Lab Sample ID: 880-14493-2

Date Collected: 05/04/22 14:11

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.5

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000387 | U         | 0.00201 | 0.000387 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| Toluene             | <0.000459 | U         | 0.00201 | 0.000459 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| Ethylbenzene        | <0.000568 | U         | 0.00201 | 0.000568 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| m-Xylene & p-Xylene | <0.00102  | U         | 0.00402 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| o-Xylene            | <0.000346 | U         | 0.00201 | 0.000346 mg/Kg |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| Xylenes, Total      | <0.00102  | U         | 0.00402 | 0.00102 mg/Kg  |   | 05/11/22 09:22 | 05/13/22 21:27 | 1       |

Eurofins Midland



## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

Client Sample ID: FS02

Lab Sample ID: 880-14493-2

Date Collected: 05/04/22 14:11

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.5

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 21:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 05/11/22 09:22 | 05/13/22 21:27 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00102 | U         | 0.00402 | 0.00102 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 96     |           | 50.0 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 26.5   | J B       | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/19/22 00:37 | 1       |
| Diesel Range Organics (Over C10-C28) | 69.1   |           | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/19/22 00:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0  | U         | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/19/22 00:37 | 1       |
| Total TPH                            | 96     | B         | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/19/22 00:37 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 05/18/22 15:06 | 05/19/22 00:37 | 1       |
| o-Terphenyl    | 101       |           | 70 - 130 | 05/18/22 15:06 | 05/19/22 00:37 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 185    |           | 4.95 | 0.850 mg/Kg |   |          | 05/11/22 15:53 | 1       |

Client Sample ID: FS03

Lab Sample ID: 880-14493-3

Date Collected: 05/04/22 14:17

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.5

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

| Analyte             | Result    | Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|----------------|---|----------------|----------------|---------|
| Benzene             | <0.000388 | U         | 0.00202 | 0.000388 mg/Kg |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| Toluene             | <0.000460 | U         | 0.00202 | 0.000460 mg/Kg |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| Ethylbenzene        | <0.000570 | U         | 0.00202 | 0.000570 mg/Kg |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| m-Xylene & p-Xylene | <0.00102  | U         | 0.00403 | 0.00102 mg/Kg  |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| o-Xylene            | <0.000347 | U         | 0.00202 | 0.000347 mg/Kg |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| Xylenes, Total      | <0.00102  | U         | 0.00403 | 0.00102 mg/Kg  |   | 05/15/22 16:33 | 05/16/22 16:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 | 05/15/22 16:33 | 05/16/22 16:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 05/15/22 16:33 | 05/16/22 16:54 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit          | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|---------------|---|----------|----------------|---------|
| Total BTEX | <0.00102 | U         | 0.00403 | 0.00102 mg/Kg |   |          | 05/14/22 16:04 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

Client Sample ID: FS03

Lab Sample ID: 880-14493-3

Date Collected: 05/04/22 14:17

Matrix: Solid

Date Received: 05/06/22 10:35

Sample Depth: 0.5

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

| Analyte   | Result | Qualifier | RL   | Unit       | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------------|---|----------|----------------|---------|
| Total TPH | 33.5   | J         | 50.0 | 15.0 mg/Kg |   |          | 05/09/22 13:49 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0     | U         | 50.0     | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |
| Diesel Range Organics (Over C10-C28) | 33.5      | J B       | 50.0     | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0     | U         | 50.0     | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |
| Total TPH                            | 33.5      | J B       | 50.0     | 15.0 mg/Kg |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |            |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |            |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |
| o-Terphenyl                          | 100       |           | 70 - 130 |            |   | 05/06/22 17:12 | 05/08/22 00:23 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------------|---|----------|----------------|---------|
| Chloride | 9.75   |           | 4.96 | 0.851 mg/Kg |   |          | 05/11/22 21:45 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | BFB1<br>(70-130) | DFBZ1<br>(70-130) |
|---------------------|------------------------|------------------|-------------------|
| 880-14491-A-1-E MS  | Matrix Spike           | 109              | 104               |
| 880-14491-A-1-F MSD | Matrix Spike Duplicate | 87               | 99                |
| 880-14493-1         | FS01                   | 101              | 103               |
| 880-14493-2         | FS02                   | 109              | 97                |
| 880-14493-3         | FS03                   | 111              | 95                |
| 890-2291-A-3-E MS   | Matrix Spike           | 109              | 93                |
| 890-2308-A-1-D MSD  | Matrix Spike Duplicate | 106              | 96                |
| LCS 880-25310/1-A   | Lab Control Sample     | 95               | 101               |
| LCS 880-25578/1-A   | Lab Control Sample     | 105              | 94                |
| LCS 880-25634/1-A   | Lab Control Sample     | 103              | 95                |
| LCSD 880-25310/2-A  | Lab Control Sample Dup | 96               | 107               |
| LCSD 880-25578/2-A  | Lab Control Sample Dup | 106              | 95                |
| LCSD 880-25634/2-A  | Lab Control Sample Dup | 101              | 94                |
| MB 880-25310/5-A    | Method Blank           | 74               | 96                |
| MB 880-25578/5-A    | Method Blank           | 101              | 93                |

## 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<br>(70-130) | OTPH1<br>(70-130) |
|--------------------|------------------------|------------------|-------------------|
| 880-14493-1        | FS01                   | 92               | 98                |
| 880-14493-1 MS     | FS01                   | 91               | 87                |
| 880-14493-1 MSD    | FS01                   | 98               | 94                |
| 880-14493-2        | FS02                   | 102              | 101               |
| 880-14493-3        | FS03                   | 96               | 100               |
| 890-2316-A-1-G MS  | Matrix Spike           | 104              | 98                |
| 890-2316-A-1-H MSD | Matrix Spike Duplicate | 103              | 94                |
| LCS 880-25005/2-A  | Lab Control Sample     | 82               | 79                |
| LCS 880-25829/2-A  | Lab Control Sample     | 105              | 102               |
| LCSD 880-25005/3-A | Lab Control Sample Dup | 81               | 78                |
| LCSD 880-25829/3-A | Lab Control Sample Dup | 102              | 98                |
| MB 880-25005/1-A   | Method Blank           | 84               | 89                |
| MB 880-25829/1-A   | Method Blank           | 111              | 118               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Lab Sample ID: MB 880-25310/5-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCS 880-25310/1-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: LCSD 880-25310/2-A

Matrix: Solid

Analysis Batch: 25497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25310

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

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

Lab Sample ID: MB 880-25578/5-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25578

| Analyte | MB Result | MB Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|----------------|---|----------------|----------------|---------|
| Benzene | <0.000385 | U            | 0.00200 | 0.000385 mg/Kg |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |
| Toluene | <0.000456 | U            | 0.00200 | 0.000456 mg/Kg |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Lab Sample ID: MB 880-25578/5-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25578

| Analyte             | MB Result | MB Qualifier | RL      | Unit           | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|----------------|---|----------------|----------------|---------|
| Ethylbenzene        | <0.000565 | U            | 0.00200 | 0.000565 mg/Kg |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |
| m-Xylene & p-Xylene | <0.00101  | U            | 0.00400 | 0.00101 mg/Kg  |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |
| o-Xylene            | <0.000344 | U            | 0.00200 | 0.000344 mg/Kg |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |
| Xylenes, Total      | <0.00101  | U            | 0.00400 | 0.00101 mg/Kg  |   | 05/15/22 16:33 | 05/16/22 11:44 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 05/15/22 16:33 | 05/16/22 11:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 | 05/15/22 16:33 | 05/16/22 11:44 | 1       |

Lab Sample ID: LCS 880-25578/1-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25578

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09547    |               | mg/Kg |   | 95   | 70 - 130    |
| Toluene             | 0.100       | 0.1055     |               | mg/Kg |   | 105  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1091     |               | mg/Kg |   | 109  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2221     |               | mg/Kg |   | 111  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1111     |               | mg/Kg |   | 111  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 94            |               | 70 - 130 |

Lab Sample ID: LCSD 880-25578/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25578

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.09231     |                | mg/Kg |   | 92   | 70 - 130    | 3   | 35    |
| Toluene             | 0.100       | 0.1029      |                | mg/Kg |   | 103  | 70 - 130    | 2   | 35    |
| Ethylbenzene        | 0.100       | 0.1056      |                | mg/Kg |   | 106  | 70 - 130    | 3   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2162      |                | mg/Kg |   | 108  | 70 - 130    | 3   | 35    |
| o-Xylene            | 0.100       | 0.1082      |                | mg/Kg |   | 108  | 70 - 130    | 3   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: LCS 880-25634/1-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25634

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09542    |               | mg/Kg |   | 95   | 70 - 130    |
| Toluene             | 0.100       | 0.1003     |               | mg/Kg |   | 100  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1024     |               | mg/Kg |   | 102  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2061     |               | mg/Kg |   | 103  | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Lab Sample ID: LCS 880-25634/1-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25634

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100       | 0.1042     |               | mg/Kg |   | 104  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-25634/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25634

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.08697     |                | mg/Kg |   | 87   | 70 - 130    | 9   | 35    |
| Toluene             | 0.100       | 0.09254     |                | mg/Kg |   | 93   | 70 - 130    | 8   | 35    |
| Ethylbenzene        | 0.100       | 0.09409     |                | mg/Kg |   | 94   | 70 - 130    | 8   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.1904      |                | mg/Kg |   | 95   | 70 - 130    | 8   | 35    |
| o-Xylene            | 0.100       | 0.09588     |                | mg/Kg |   | 96   | 70 - 130    | 8   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 94             |                | 70 - 130 |

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

Lab Sample ID: MB 880-25005/1-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25005

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

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

Lab Sample ID: LCS 880-25005/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25005

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 834.1      |               | mg/Kg |   | 83   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 844.6      |               | mg/Kg |   | 84   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Lab Sample ID: LCS 880-25005/2-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25005

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

Lab Sample ID: LCSD 880-25005/3-A

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25005

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

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

Lab Sample ID: 880-14493-1 MS

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 25005

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0         | U                | 1000        | 839.1     |              | mg/Kg |   | 84   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 90.6          | B                | 1000        | 860.3     |              | mg/Kg |   | 77   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 91        |           | 70 - 130 |
| o-Terphenyl    | 87        |           | 70 - 130 |

Lab Sample ID: 880-14493-1 MSD

Matrix: Solid

Analysis Batch: 25019

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 25005

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0         | U                | 998         | 806.6      |               | mg/Kg |   | 81   | 70 - 130    | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 90.6          | B                | 998         | 923.0      |               | mg/Kg |   | 83   | 70 - 130    | 7   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

Eurofins Midland

## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

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

Lab Sample ID: MB 880-25829/1-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25829

| Analyte                              | MB Result | MB Qualifier | RL   | Unit       | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|------------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 19.53     | J            | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/18/22 21:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/18/22 21:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <15.0     | U            | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/18/22 21:27 | 1       |
| Total TPH                            | 19.53     | J            | 50.0 | 15.0 mg/Kg |   | 05/18/22 15:06 | 05/18/22 21:27 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111          |              | 70 - 130 | 05/18/22 15:06 | 05/18/22 21:27 | 1       |
| o-Terphenyl    | 118          |              | 70 - 130 | 05/18/22 15:06 | 05/18/22 21:27 | 1       |

Lab Sample ID: LCS 880-25829/2-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25829

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 857.6      |               | mg/Kg |   | 86   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 998.7      |               | mg/Kg |   | 100  | 70 - 130    |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 105           |               | 70 - 130 |
| o-Terphenyl    | 102           |               | 70 - 130 |

Lab Sample ID: LCSD 880-25829/3-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25829

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 845.8       |                | mg/Kg |   | 85   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 959.5       |                | mg/Kg |   | 96   | 70 - 130    | 4   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 102            |                | 70 - 130 |
| o-Terphenyl    | 98             |                | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24971/1-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Method Blank

Prep Type: Soluble

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

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## QC Sample Results

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24971/2-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-24971/3-A

Matrix: Solid

Analysis Batch: 25317

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: MB 880-25207/1-A

Matrix: Solid

Analysis Batch: 25349

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit        | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------------|---|----------|----------------|---------|
| Chloride | <0.858    | U            | 5.00 | 0.858 mg/Kg |   |          | 05/11/22 21:21 | 1       |

Lab Sample ID: LCS 880-25207/2-A

Matrix: Solid

Analysis Batch: 25349

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 264.2      |               | mg/Kg |   | 106  | 90 - 110    |

Lab Sample ID: LCSD 880-25207/3-A

Matrix: Solid

Analysis Batch: 25349

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         | 264.6       |                | mg/Kg |   | 106  | 90 - 110    | 0   | 20        |

Lab Sample ID: 880-14493-3 MS

Matrix: Solid

Analysis Batch: 25349

Client Sample ID: FS03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 9.75          |                  | 248         | 270.6     |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 880-14493-3 MSD

Matrix: Solid

Analysis Batch: 25349

Client Sample ID: FS03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 9.75          |                  | 248         | 264.5      |               | mg/Kg |   | 103  | 90 - 110    | 2   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

## GC VOA

## Prep Batch: 25310

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-1        | FS01                   | Total/NA  | Solid  | 5035   |            |
| 880-14493-2        | FS02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25497

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-1        | FS01                   | Total/NA  | Solid  | 8021B  | 25310      |
| 880-14493-2        | FS02                   | Total/NA  | Solid  | 8021B  | 25310      |
| MB 880-25310/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25310      |
| LCS 880-25310/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25310      |
| LCSD 880-25310/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25310      |

## Analysis Batch: 25573

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-14493-1   | FS01             | Total/NA  | Solid  | Total BTEX |            |
| 880-14493-2   | FS02             | Total/NA  | Solid  | Total BTEX |            |
| 880-14493-3   | FS03             | Total/NA  | Solid  | Total BTEX |            |

## Prep Batch: 25578

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-3        | FS03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25578/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25578/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25578/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 25591

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-3        | FS03                   | Total/NA  | Solid  | 8021B  | 25578      |
| MB 880-25578/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25578      |
| LCS 880-25578/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25578      |
| LCS 880-25634/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25634      |
| LCSD 880-25578/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25578      |
| LCSD 880-25634/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25634      |

## Prep Batch: 25634

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCS 880-25634/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25634/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

## Prep Batch: 25005

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14493-1        | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14493-3        | FS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-25005/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-25005/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-25005/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14493-1 MS     | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

## GC Semi VOA (Continued)

## Prep Batch: 25005 (Continued)

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|-----------------|------------------|-----------|--------|-------------|------------|
| 880-14493-1 MSD | FS01             | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 25019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14493-1        | FS01                   | Total/NA  | Solid  | 8015B NM | 25005      |
| 880-14493-3        | FS03                   | Total/NA  | Solid  | 8015B NM | 25005      |
| MB 880-25005/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 25005      |
| LCS 880-25005/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 25005      |
| LCSD 880-25005/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 25005      |
| 880-14493-1 MS     | FS01                   | Total/NA  | Solid  | 8015B NM | 25005      |
| 880-14493-1 MSD    | FS01                   | Total/NA  | Solid  | 8015B NM | 25005      |

## Analysis Batch: 25122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-14493-1   | FS01             | Total/NA  | Solid  | 8015 NM |            |
| 880-14493-2   | FS02             | Total/NA  | Solid  | 8015 NM |            |
| 880-14493-3   | FS03             | Total/NA  | Solid  | 8015 NM |            |

## Analysis Batch: 25770

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14493-2        | FS02                   | Total/NA  | Solid  | 8015B NM | 25829      |
| MB 880-25829/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 25829      |
| LCS 880-25829/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 25829      |
| LCSD 880-25829/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 25829      |

## Prep Batch: 25829

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-14493-2        | FS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-25829/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-25829/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-25829/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## HPLC/IC

## Leach Batch: 24971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14493-1        | FS01                   | Soluble   | Solid  | DI Leach |            |
| 880-14493-2        | FS02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 25207

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-14493-3        | FS03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-25207/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-25207/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-25207/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-14493-3 MS     | FS03                   | Soluble   | Solid  | DI Leach |            |
| 880-14493-3 MSD    | FS03                   | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

## HPLC/IC

## Analysis Batch: 25317

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-1        | FS01                   | Soluble   | Solid  | 300.0  | 24971      |
| 880-14493-2        | FS02                   | Soluble   | Solid  | 300.0  | 24971      |
| MB 880-24971/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 24971      |
| LCS 880-24971/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 24971      |
| LCSD 880-24971/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 24971      |

## Analysis Batch: 25349

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-14493-3        | FS03                   | Soluble   | Solid  | 300.0  | 25207      |
| MB 880-25207/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 25207      |
| LCS 880-25207/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 25207      |
| LCSD 880-25207/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 25207      |
| 880-14493-3 MS     | FS03                   | Soluble   | Solid  | 300.0  | 25207      |
| 880-14493-3 MSD    | FS03                   | Soluble   | Solid  | 300.0  | 25207      |

## Lab Chronicle

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

Client Sample ID: FS01

Lab Sample ID: 880-14493-1

Date Collected: 05/04/22 14:00

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 21:01       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25573        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25122        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 25005        | 05/06/22 17:12       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/07/22 23:03       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25317        | 05/11/22 15:44       | CH      | XEN MID |

Client Sample ID: FS02

Lab Sample ID: 880-14493-2

Date Collected: 05/04/22 14:11

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25310        | 05/11/22 09:22       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25497        | 05/13/22 21:27       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25573        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25122        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 25829        | 05/18/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25770        | 05/19/22 00:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 24971        | 05/06/22 16:02       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25317        | 05/11/22 15:53       | CH      | XEN MID |

Client Sample ID: FS03

Lab Sample ID: 880-14493-3

Date Collected: 05/04/22 14:17

Matrix: Solid

Date Received: 05/06/22 10:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 25578        | 05/15/22 16:33       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25591        | 05/16/22 16:54       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 25573        | 05/14/22 16:04       | MR      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 25122        | 05/09/22 13:49       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 25005        | 05/06/22 17:12       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 25019        | 05/08/22 00:23       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 25207        | 05/09/22 16:46       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 25349        | 05/11/22 21:45       | CH      | XEN MID |

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

Laboratory: Eurofins Midland

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

| Authority   | Program     | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| Texas   | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method   | Prep Method | Matrix                | Analyte         |
| 8015 NM   |             | Solid                 | Total TPH       |
| 8015B NM  | 8015NM Prep | Solid                 | Total TPH       |
| Total BTEX  |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum

Job ID: 880-14493-1

Project/Site: King Cobra 2 State 1H

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

Sample Summary

Client: Ensolum  
Project/Site: King Cobra 2 State 1H

Job ID: 880-14493-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-14493-1   | FS01             | Solid  | 05/04/22 14:00 | 05/06/22 10:35 | 0.5   |
| 880-14493-2   | FS02             | Solid  | 05/04/22 14:11 | 05/06/22 10:35 | 0.5   |
| 880-14493-3   | FS03             | Solid  | 05/04/22 14:17 | 05/06/22 10:35 | 0.5   |

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



## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 802-0300 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 7505 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900  
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6707  
Atlanta GA (770) 449-8800

Atlanta GA (770) 449-8800

Work Order No: 14493

www.xenco.com Page 1 of 1

|                 |                         |                        |                      |
|-----------------|-------------------------|------------------------|----------------------|
| Project Manager | Kalei Jennings          | Bill to (if different) | Kalei Jennings       |
| Company Name    | ENSOLVM                 | Company Name           |                      |
| Address         | 601 N Main Street, #400 | Address                |                      |
| City State ZIP  | Madison, TX 76701       | City, State ZIP        |                      |
| Phone           | 817-683-2503            | Email                  | Kjennings@ensolv.com |

|                     |   |                                      |                                    |
|---------------------|---|--------------------------------------|------------------------------------|
| Work Order Comments |   |                                      |                                    |
| Program: UST/PT     | <input type="checkbox"/> PRP                | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RRC       |
|                     |   |                                      | <input type="checkbox"/> Superfund |
| State of Project    |   |                                      |                                    |
| Reporting Level     | <input checked="" type="checkbox"/> Level I | <input type="checkbox"/> PST/UST     | <input type="checkbox"/> TRR       |
|                     |   |                                      | <input type="checkbox"/> Level II  |
| Deliverables        | EDD <input checked="" type="checkbox"/>     | ADAPT <input type="checkbox"/>       | Other                              |

|  |                       |             |                                     |
|--|-----------------------|-------------|-------------------------------------|
| Project Name   | King Cobra 2 Strat 1H | Turn Around |                                     |
| Project Number   |                       | Routine     | <input checked="" type="checkbox"/> |
| Project Location   |                       | Rush        | <input type="checkbox"/>            |
| Sampler's Name   | Hadlie Green          | Due Date    | SDAY                                |
| PO #   |                       |             |                                     |
| SAMPLE RECEIPT   | Temp Blank            | Yes (No)    | Wet Ice                             |
| Temperature (°C)   | 4.2/4.0               |             | Thermometer ID                      |
| Received Intact  | Yes (No)              |             |                                     |
| Cooler Custody Seals   | Yes (No)              |             | Correction Factor                   |
| Sample Custody Seals   | Yes (No)              |             | Total Containers                    |
| Number of Containers/Preservative Code                       |                       |             |                                     |
| 1  | 8015                  |             |                                     |
| X  | 8021                  |             |                                     |
|  | 021053                | 300         |                                     |
| ANALYSIS REQUEST   |                       |             |                                     |
| Preservative Codes   |                       |             |                                     |
| HNO3 HN  |                       |             |                                     |
| H2SO4 H2   |                       |             |                                     |
| HCL HL   |                       |             |                                     |
| None NO  |                       |             |                                     |
| NaOH Na  |                       |             |                                     |
| MeOH Me  |                       |             |                                     |
| Zn Acetate+ NaOH Zn  |                       |             |                                     |
| TAT starts the day received by the lab if received by 4 30pm |                       |             |                                     |

[illegible]

880-14493 Chain of Custody

**Total 200.7 / 6010      200.8 / 6020:**

| Total 200.7 / 6010                           |       | 200.8 / 6020:                                  |   |
|--|-------|--|---|
| Circle Method(s) and Metal(s) to be analyzed |       |  |   |
| 8RCRA  | 13PPM | Texs 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 |
| 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 documented relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 those losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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>Shadi Green</i>        | <i>UFT</i>              | 5/10/20   | 2                           |                         |           |
| 3                           |                         | 10:35     | 4                           |                         |           |
| 5                           |                         |           | 6                           |                         |           |



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-14493-1

Login Number: 14493

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



## APPENDIX D

### NMOCD Notifications

---

**From:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: [EXTERNAL](Extension Approval) - King Cobra 2 Sate 001H (Incident Number NAPP2205234848)  
**Date:** Friday, May 6, 2022 4:34:19 PM  
**Attachments:** [image002.jpg](#)  
[image003.png](#)

---

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

FYI

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Friday, May 6, 2022 3:28 PM  
**To:** Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>  
**Cc:** Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>  
**Subject:** [EXTERNAL](Extension Approval) - King Cobra 2 Sate 001H (Incident Number NAPP2205234848)

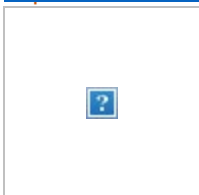
**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #**NAPP2205234848**

**Charles,**

Your request for an extension to **August 6th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>

**Sent:** Friday, May 6, 2022 2:51 PM

**To:** EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>

**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Fejervary Morena, Gustavo A <[G.Fejervary@conocophillips.com](mailto:G.Fejervary@conocophillips.com)>

**Subject:** [EXTERNAL] Extension Request 2 - King Cobra 2 Sate 001H (Incident Number NAPP2205234848)

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

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 8, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at King Cobra 2 Sate 001H (Incident Number NAPP2205234848). The release was discovered on February 6, 2022 and remediation activities are expected to complete this week. In order to complete remediation activities and allow time to submit a remediation work plan or closure report COP requests a 90-day extension of this deadline until August 6, 2022.

Respectfully,

***Charles R. Beauvais II***

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**

(M) 575-988-2043

[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)

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



**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Kalei Jennings](#)  
**Cc:** [Beauvais, Charles R](#); [Bratcher, Mike, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** RE: [EXTERNAL] COP - Sampling Notification (Week of 5/2/22 - 5/6/22)  
**Date:** Friday, April 29, 2022 9:06:09 AM  
**Attachments:** [image005.jpg](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

---

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

Kalei,

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

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

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

---

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

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

All,

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

Monday:

Tuesday:

Wednesday:

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

Thursday:

- Zia Hills 25E / NAPP2205439117

Friday:

Thank you,



**Kalei Jennings**

Senior Scientist

817-683-2503

**Ensolum, LLC**





APPENDIX E

Final C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2205234848 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             |         |          |       |        |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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



|                |                |
|----------------|----------------|
| Incident ID    | NAPP2205234848 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No                           | If YES, for what reason(s) does the responsible party consider this a major release?<br><br><br><br><br><br><br><br><br><br> |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br><br><br><br><br><br><br><br><br><br> |  |

### Initial Response

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

|  |                  |
|--|------------------|
| <input type="checkbox"/> The source of the release has been stopped.   |                  |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment.   |                  |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.   |                  |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |                  |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br><br><br><br><br><br><br><br><br><br>   |                  |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |                  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                  |
| Printed Name: _____  | Title: _____     |
| Signature: <u>Patricia Espinoza</u>  | Date: _____      |
| email: _____   | Telephone: _____ |
| <b><u>OCD Only</u></b>   |                  |
| Received by: _____   | Date: _____      |

## L48 Spill Volume Estimate Form

|  |                     |
|--|---------------------|
| Facility Name & Number:                    | King Cobra 2        |
| Asset Area:                                | NDBE NAPP2205234848 |
| Release Discovery Date & Time:             | 2/6/2022 9AM        |
| Release Type:                              | Other               |
| Provide any known details about the event: | Flare Fire. On-Pad. |

## Spill Calculation - Subsurface Spill - Rectangle

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

| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Depth (in.) | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) |
|---|--------------|-------------|-------------|-------------------------------|--------------------------------------|--|
| Rectangle A   | 16.0         | 10.0        | 0.01        | 10.50%                        | 0.024                                | 0.002                                  |
| Rectangle B   | 21.0         | 18.0        | 0.01        | 10.50%                        | 0.056                                | 0.006                                  |
| Rectangle C   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle D   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle E   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle F   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle G   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle H   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle I   |              |             |             |                               | 0.000                                | 0.000                                  |
| Rectangle J   |              |             |             |                               | 0.000                                | 0.000                                  |

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

Action 82927

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137  |
|   | Action Number:<br>82927                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| rmarcus    | None      | 2/21/2022      |

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2205234848 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2205234848 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

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

Printed Name: \_\_Charles Beauvais\_\_\_\_\_ Title: \_\_Senior Environmental Engineer\_\_\_\_\_

Signature: Charles R. Beauvais II Date: \_\_07/27/2022\_\_\_\_\_

email: \_\_Charles.R.Beauvais@conocophillips.com\_\_\_\_\_ Telephone: \_\_575-988-2043\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2205234848 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais Date: 07/27/2022

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

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui Date: 08/02/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

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

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

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

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

CONDITIONS  
  
Action 129257

CONDITIONS

|   |   |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137  |
|   | Action Number:<br>129257                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                | Condition Date |
|------------|--------------------------|----------------|
| jnobui     | Closure Report Approved. | 8/2/2022       |