

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	
District RP	
Facility ID	
Application ID	

## Release Notification

# DENIED

### Responsible Party

Responsible Party: <b>Enterprise Field Services, LLC</b>	OGRID: <b>151618</b>
Contact Name: <b>Thomas Long</b>	Contact Telephone: <b>505-599-2286</b>
Contact email: <b>tjlong@eprod.com</b>	Incident # (assigned by OCD): <b>NCS1919034097</b>
Contact mailing address: <b>614 Reilly Ave, Farmington, NM 87401</b>	

### Location of Release Source

Latitude **36.628523** Longitude **-108.010080** (NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Lateral 2B-23 Drip Tank</b>	Site Type <b>Natural Gas Condensate Tank</b>
Date Release Discovered: <b>6/21/2019</b>	Serial Number (if applicable): <b>NM 0 021702</b>

Unit Letter	Section	Township	Range	County
<b>N</b>	<b>28</b>	<b>28N</b>	<b>11W</b>	<b>San Juan</b>

\*Incomplete Report,  
No Notification for Samples  
/OCD Approvals  
- Incomplete Ground Water Data

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Please Review and resubmit no later  
Than 4/17/2020

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 checked="" type="checkbox"/> Condensate	Volume Released (bbls): <b>40 bbls</b>	Volume Recovered (bbls): <b>~ 40 bbls</b>
<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:** On June 21, 2019, an Enterprise technician discovered a release of condensate on the Lateral 2B-23 Drip Tank. The release was a result of someone shooting holes in the tank. The condensate tank was pumped down by utilizing a vacuum truck. An estimated 40 barrels of condensate was released into the lined secondary containment structure. The condensate from the secondary containment was also removed by vacuum truck. On July 3, 2019, Enterprise removed the liner and completed remediation activities. The final excavation dimensions measured approximately 23 feet long by 21 feet wide by approximately 0.5 feet deep. Approximately seven (7) cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	
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: Jon E. FieldsTitle: Director, EnvironmentalSignature: Date: 12/17/19email: jefields@eprod.comTelephone: (713) 381-6684

**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: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**DENIED**



## CLOSURE REPORT

Property:

**2B-23 Drip Tank Release  
SW ¼, S28 T28N R11W  
San Juan County, New Mexico**

October 15, 2019  
Ensolum Project No. 05A1226066

Prepared for:

**Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, NM 87401  
Attn: Mr. Thomas Long**

Prepared by:

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Ranee Deechilly  
Environmental Scientist

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Kyle Summers, CPG  
Sr. Project Manager

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### **Appendix B: Executed C-138 Solid Waste Acceptance Form**

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### **Appendix E: Laboratory Data Sheets & Chain of Custody Documentation**



## CLOSURE REPORT

**2B-23 Drip Tank Release**  
**SW ¼, S28 T28N R11W**  
**San Juan County, New Mexico**

**Ensolum Project No. 05A1226066**

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	2B-23 Drip Tank Release (Site)
<b>Location:</b>	36.628523° North, 108.010080° West Southwest (SW) ¼ of Section 28, Township 28 North, Range 11 West San Juan County, New Mexico
<b>Property:</b>	United States (US) Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 21, 2019, Enterprise personnel identified approximately 40 barrels (bbls) of water/condensate within the 2B-23 drip tank secondary lined containment. The release of water/condensate resulted from the drip tank being vandalized. Enterprise subsequently removed the liquids from the secondary containment and initiated activities to facilitate the removal and replacement of the drip tank and to remediate potential petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

#### 1.2 Project Objective

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

### 2.0 CLOSURE CRITERIA

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

- No water wells were identified within a one-half mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. It appears that a POD (SP 04019) was filed for a construction project within one-half mile, but it appears to be related to the Navajo Irrigation Project Canal, as opposed to groundwater.

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 Closure Report  
 2B-23 Drip Tank Release  
 October 15, 2019



- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution or church.
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

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

Closure Criteria for Soils Impacted by a Release		
Constituent	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 mg/kg
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

During the remediation and corrective action activities OFT Construction, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 23 feet long and 21 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 0.5 feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

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A total of approximately seven (7) cubic yards (cy<sup>3</sup>) of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. Liquids removed from the containment were recycled and transported to the Blanco Storage facility. The excavation was backfilled with imported fill and then contoured to surrounding grade.

**Figure 3** is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

#### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened soil samples from the scraped area utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dextsil PetroFLAG<sup>®</sup> hydrocarbon analyzer system.

Ensolum's soil sampling program included the collection of three (3) composite soil samples (S-1 through S-3), comprised of five (5) aliquots each from the scraped area for laboratory analysis. A clean shovel was utilized to obtain fresh aliquots from each area of the scraped excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling event. A New Mexico EMNRD OCD representative was not on-Site during the sampling event.

##### First Sampling Event

Subsequent to the removal of the drip tank and the secondary containment lining, the footprint of the former secondary containment was scraped one (1) to six (6) inches in depth utilizing a back hoe. Composite soil samples S-1 (6"), S-2 (3"), and S-3 (1") were collected from the scraped areas.

Soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

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

#### 6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-3) to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site, indicate benzene is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).



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2B-23 Drip Tank Release  
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- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present in concentrations greater than laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

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

## 7.0 RECLAMATION AND RE-VEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The leaking tank was replaced and put back into service.

## 8.0 FINDINGS AND RECOMMENDATION

On June 21, 2019, Enterprise personnel identified approximately 40 bbls of water/condensate within the 2B-23 drip tank secondary lined containment. The release of water/condensate resulted from the drip tank being vandalized. Enterprise subsequently removed the liquids from the secondary containment and initiated activities to facilitate the removal and replacement of the drip tank and to remediate potential petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of three (3) composite soil samples were collected from the floor of the excavation for laboratory analysis. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately seven (7) cy<sup>3</sup> of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and then contoured to surrounding grade.

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

## 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the



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Closure Report  
2B-23 Drip Tank Release  
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work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

## **9.2 Additional Limitations**

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

## **9.3 Reliance**

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

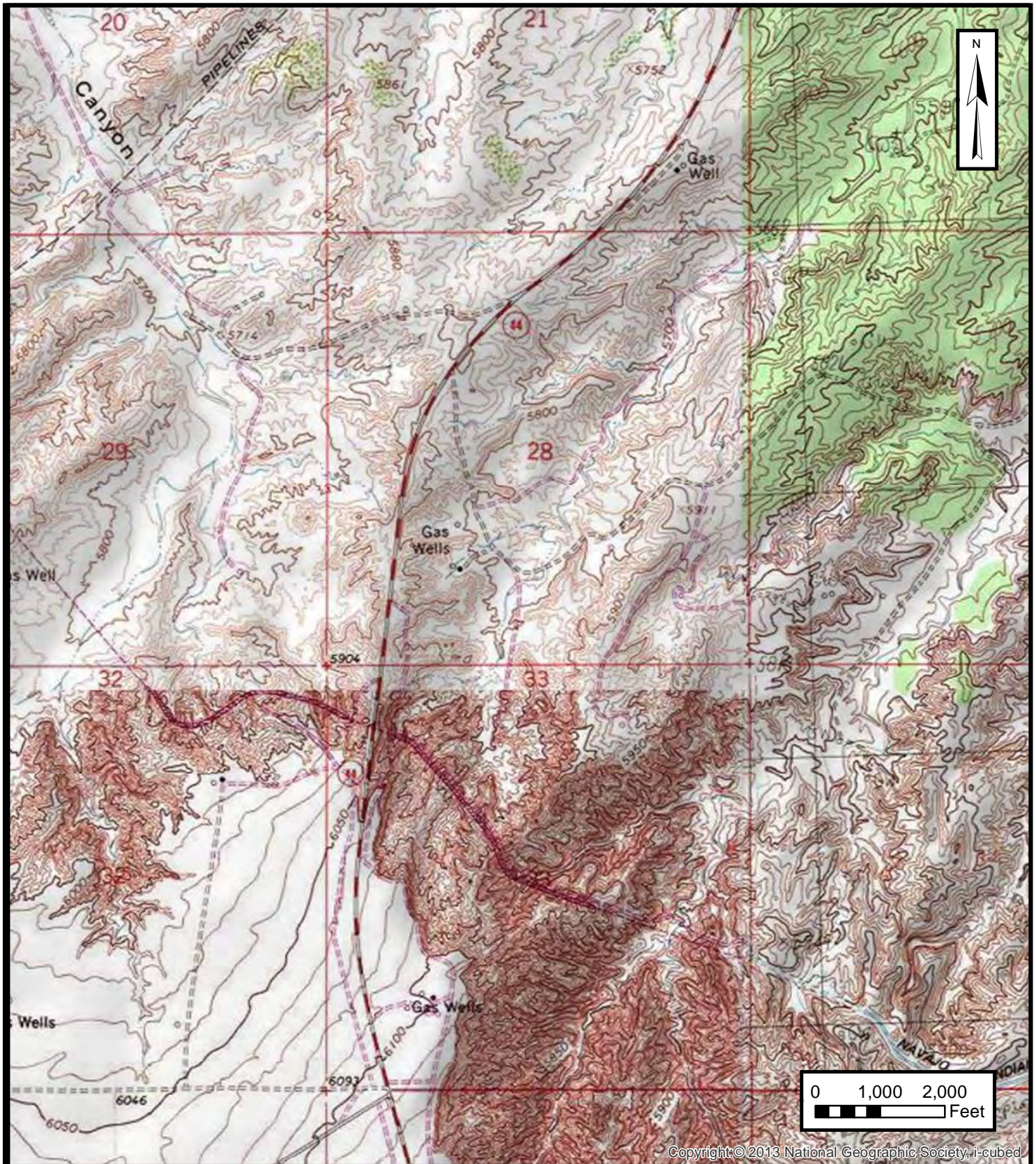


## APPENDIX A

### Figures

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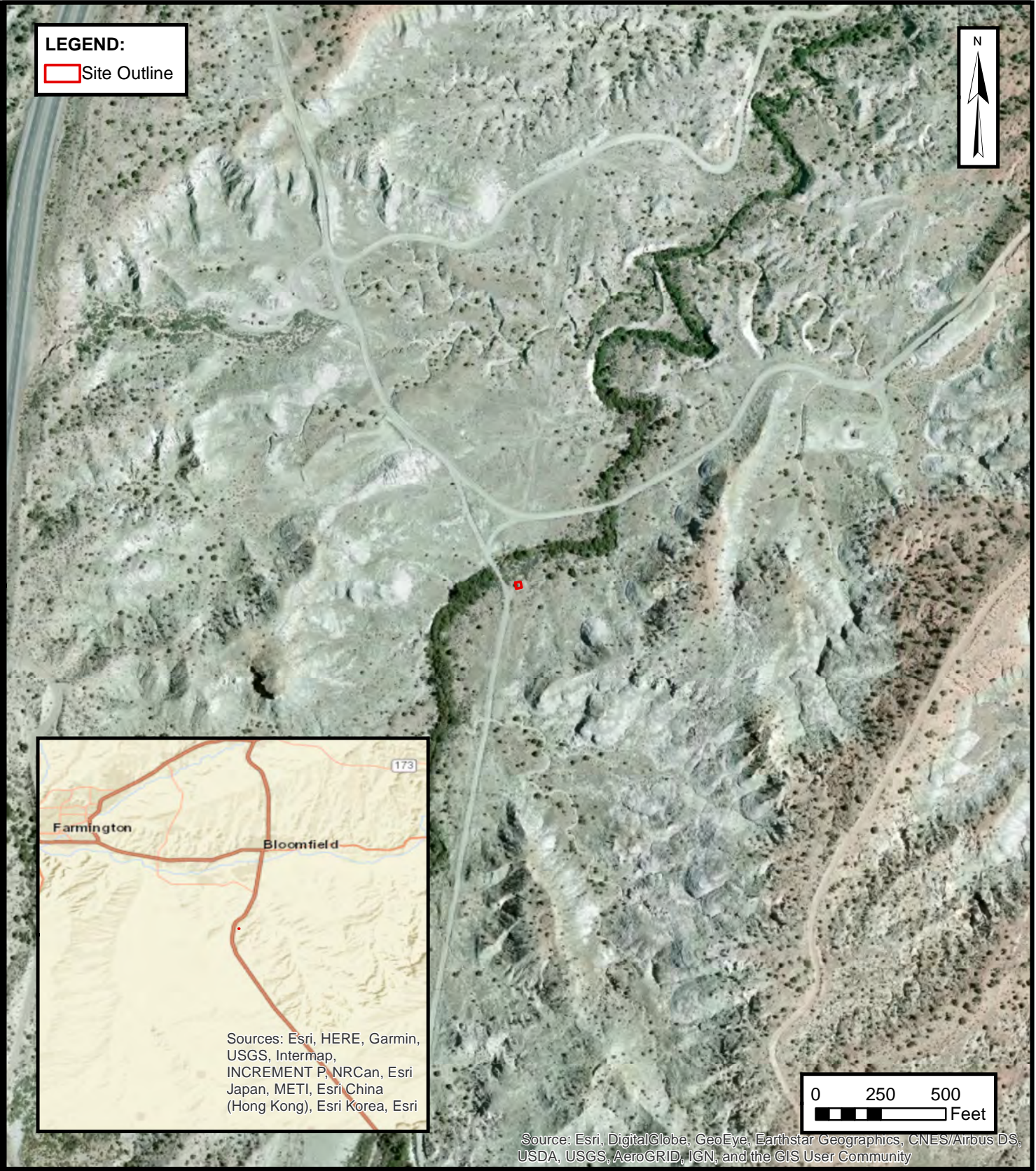
 **ENSOLUM**  
Environmental & Hydrogeologic Consultants

**TOPOGRAPHIC MAP**  
ENTERPRISE FIELD SERVICES, LLC  
2B-23 DRIP TANK RELEASE  
SW ¼, S28 T28N R11W, San Juan County, New Mexico  
36.628523° N, 108.010080° W

PROJECT NUMBER: 05A1226066

**FIGURE**  
**1**





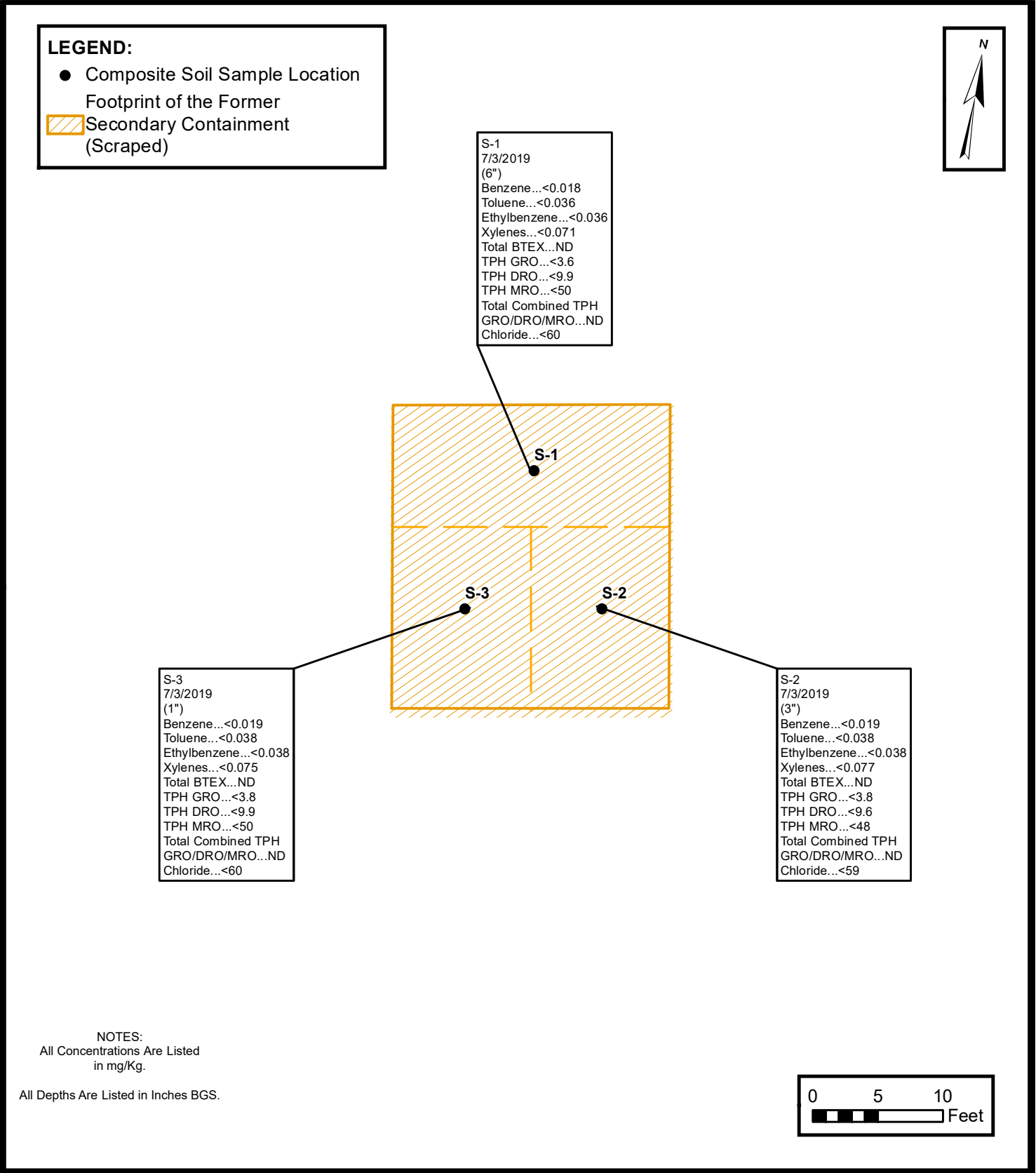
**SITE VICINITY MAP**

ENTERPRISE FIELD SERVICES, LLC  
2B-23 DRIP TANK RELEASE  
SW ¼, S28 T28N R11W, San Juan County, New Mexico  
36.628523° N, 108.010080° W

PROJECT NUMBER: 05A1226066

**FIGURE**

**2**





## APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

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

97057-1019 Form C-138  
Revised August 1, 2011  
\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

<b>1. Generator Name and Address:</b> <b>2. Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401</b>	<b>Invoice Information:</b>  <b>PM: Aron Lucero</b> <b>Pay Key: RB21200-15404</b>
<b>3. Originating Site:</b> <b>Lateral 2B-23 Drip Tank (6-21-19 release)</b>	
<b>4. Location of Material (Street Address, City, State or ULSTR):</b> <b>UL N Section 28 T28N R11W; 36.628523, -108.010080</b>	
<b>4. Source and Description of Waste: Hydrocarbon impacted soil/sludge from remediation activities associated with a natural gas pipeline release.</b> Estimated Volume <u>5</u> <sup>yd<sup>3</sup></sup> /bbls Known Volume (to be entered by the operator at the end of the haul) <u>7</u> <sup>yd<sup>3</sup></sup> /bbls	
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b>  I, <u>Brian Stone</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby <small>PRINT &amp; SIGN NAME COMPANY NAME</small> certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)  <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load  <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b>	
I, <u>7-3-19</u> , representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to <small>Generator Signature</small> complete the required testing/sign the Generator Waste Testing Certification.  I, <u>Greg Crabtree</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
<b>Transporter: TBD</b>	

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility \* Permit #: NM 01-0011**  
 Address of Facility: **Hilltop, NM**

#### Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

#### Waste Acceptance Status:

☒ **APPROVED**

☐ **DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: Greg Crabtree

TITLE: Enviro Manager

DATE: 7/3/19

SIGNATURE: [Signature]  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0655





## APPENDIX C




### Photographic Documentation

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SITE PHOTOGRAPHS

Enterprise Field Services, LLC  
2B-23 Drip Tank Release  
Ensolum Project No. 05A1226066



<p><b>Photograph 1</b></p> <p>Photograph Description: View of the scraped area.</p>	
<p><b>Photograph 2</b></p> <p>Photograph Description: View of the scraped area.</p>	
<p><b>Photograph 3</b></p> <p>Photograph Description: View of the scraped area.</p>	



APPENDIX D

Table 1 – Soil Analytical Summary

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**TABLE 1**  
**2B-23 Drip Tank Release**  
**SOIL ANALYTICAL SUMMARY**

Sample I.D.	Date	Sample Type C - Composite G - Grab	Sample Depth (inches)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Closure Criteria				10	NE	NE	NE	50				100	600
Final Confirmation Composite Soil Samples													
S-1	7.03.19	C	6	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.9	<50	ND	<60
S-2	7.03.19	C	3	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.6	<48	ND	<59
S-3	7.03.19	C	1	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.9	<50	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon



## APPENDIX E

### Laboratory Data Sheets & Chain of Custody Documentation

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 10, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: 2B 23 Drip Tank

OrderNo.: 1907226

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/4/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 1907226

Date Reported: 7/10/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: 2B 23 Drip Tank

Collection Date: 7/3/2019 8:05:00 AM

Lab ID: 1907226-001

Matrix: SOIL

Received Date: 7/4/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	7/5/2019 1:34:21 PM	46021
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/5/2019 9:58:16 AM	46018
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/5/2019 9:58:16 AM	46018
Surr: DNOP	98.0	70-130		%Rec	1	7/5/2019 9:58:16 AM	46018
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/5/2019 11:34:24 AM	G61171
Surr: BFB	101	73.8-119		%Rec	1	7/5/2019 11:34:24 AM	G61171
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Toluene	ND	0.036		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Ethylbenzene	ND	0.036		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Xylenes, Total	ND	0.071		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	7/5/2019 11:34:24 AM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 1907226

Date Reported: 7/10/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: 2B 23 Drip Tank

Collection Date: 7/3/2019 8:10:00 AM

Lab ID: 1907226-002

Matrix: SOIL

Received Date: 7/4/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	59		mg/Kg	20	7/5/2019 1:46:46 PM	46021
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/5/2019 10:20:23 AM	46018
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/5/2019 10:20:23 AM	46018
Surr: DNOP	93.9	70-130		%Rec	1	7/5/2019 10:20:23 AM	46018
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/5/2019 11:57:05 AM	G61171
Surr: BFB	103	73.8-119		%Rec	1	7/5/2019 11:57:05 AM	G61171
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.019		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Toluene	ND	0.038		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Ethylbenzene	ND	0.038		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Xylenes, Total	ND	0.077		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	7/5/2019 11:57:05 AM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**Lab Order **1907226**Date Reported: **7/10/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** ENSOLUM**Client Sample ID:** S-3**Project:** 2B 23 Drip Tank**Collection Date:** 7/3/2019 8:15:00 AM**Lab ID:** 1907226-003**Matrix:** SOIL**Received Date:** 7/4/2019 8:05:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	7/5/2019 1:59:11 PM	46021
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/5/2019 10:42:31 AM	46018
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/5/2019 10:42:31 AM	46018
Surr: DNOP	93.6	70-130		%Rec	1	7/5/2019 10:42:31 AM	46018
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/5/2019 12:19:45 PM	G61171
Surr: BFB	101	73.8-119		%Rec	1	7/5/2019 12:19:45 PM	G61171
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.019		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Toluene	ND	0.038		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Ethylbenzene	ND	0.038		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Xylenes, Total	ND	0.075		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	7/5/2019 12:19:45 PM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1907226****10-Jul-19**

**Client:** ENSOLUM  
**Project:** 2B 23 Drip Tank

Sample ID: <b>MB-46021</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46021</b>	RunNo: <b>61175</b>								
Prep Date: <b>7/5/2019</b>	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2074356</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-46021</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46021</b>	RunNo: <b>61175</b>								
Prep Date: <b>7/5/2019</b>	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2074357</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1907226****10-Jul-19**

**Client:** ENSOLUM  
**Project:** 2B 23 Drip Tank

Sample ID: <b>LCS-46018</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46018</b>	RunNo: <b>61157</b>								
Prep Date: <b>7/5/2019</b>	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073055</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	63.9	124			
Surr: DNOP	4.8		5.000		95.8	70	130			

Sample ID: <b>MB-46018</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46018</b>	RunNo: <b>61157</b>								
Prep Date: <b>7/5/2019</b>	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073056</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.8	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1907226****10-Jul-19**

**Client:** ENSOLUM  
**Project:** 2B 23 Drip Tank

Sample ID: <b>RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>G61171</b>	RunNo: <b>61171</b>								
Prep Date:	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073623</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	73.8	119			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>G61171</b>	RunNo: <b>61171</b>								
Prep Date:	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073811</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	80.1	123			
Surr: BFB	1200		1000		116	73.8	119			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1907226****10-Jul-19**

**Client:** ENSOLUM  
**Project:** 2B 23 Drip Tank

Sample ID: <b>RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B61171</b>	RunNo: <b>61171</b>								
Prep Date:	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073637</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	80	120			

Sample ID: <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B61171</b>	RunNo: <b>61171</b>								
Prep Date:	Analysis Date: <b>7/5/2019</b>	SeqNo: <b>2073638</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: ENSOLUM AZTEC

Work Order Number: 1907226

RcptNo: 1

Received By: Andy Freeman

7/4/2019 8:05:00 AM

Completed By: Anne Thorne

7/5/2019 7:42:47 AM

Reviewed By: DAD 7/5/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 1  
( $<3$  or  $>12$  unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

custody seals intact on all jars / 07/05/19

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			



