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	NCS2125149220
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party LOGOS Operating, LLC	OGRID 289408
Contact Name Marie E. Florez	Contact Telephone 505-419-8420
Contact email mflorez@logosresourcesllc.com	Incident # *(assigned by OCD)*
Contact mailing address 2010 Afton Place, Farmington NM 87401	

Location of Release Source

Latitude 36.51774 Longitude -107.1113
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Jicarilla 96 002C	Site Type Well Type
Date Release Discovered 5/4/2021	API# *(if applicable)* 30-039-26827

Unit Letter	Section	Township	Range	County
G	02	26N	3W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Jicarilla)
NV 01/19/2022

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The cause of the release is due to the a broken sight glass on the separator and released produced water. The estimated release amount was unknown. Jicarilla requested LOGOS to removed the separator and began to remediate. On May 4, LOGOS hauled off 40 yards of contaminated soil which caused this to be more than 5bbls, with the dimensions at 16' X 23'.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NCS2125149220
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name: Marie E. Florez Title: Regulatory Specialist

Signature: Marie E Florez Date: 5/6/2021

email: mflorez@logosresourcesllc.com Telephone: 505-419-8420

OCD Only

Received by: Ramona Marcus Date: 9/12/2021

Incident ID	NCS2125149220
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?	50'-100' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NCS2125149220
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

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

[x] 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: Marie E. Florez Title: Regulatory Specialist

Signature: Marie E Florez Date: 5/25/2021

email: mflorez@logosresourcesllc.com Telephone: 505-419-8420

OCD Only

Received by: Ramona Marcus Date: 9/12/2021

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: Nelson Velez Date: 01/19/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-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

1. Generator Name and Address:
LOGOS Operating, LLC
2010 Afton Place, Farmington NM 87401

2. Originating Site:
Jicarilla 96 2C
API: 30-039-26827

3. Location of Material (Street Address, City, State or ULSTR):
Unit: G Section: 02 Township: 26N Range: 3W

4. Source and Description of Waste:
Contaminated Soil

Estimated Volume >25 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Marie E. Florez, representative or authorized agent for LOGOS Operating, LLC do hereby 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)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ 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)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Marie E. Florez, representative for LOGOS Operating, LLC 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.

5. Transporter:
Various

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175 South of Bloomfield NM 87413

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: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

Release Confirmation Sampling Report

Jicarilla 96-002C

API #30-039-26827
Unit G, Section 2, T26N, R3W
Rio Arriba County, New Mexico

May 25, 2021
Project #12035-0168

Ms. Marie Florez
2010 Afton Place
Farmington, New Mexico

Phone: (505) 787-2218
E-mail: mflorez@logosresourcesllc.com

envirotech

Practical Solutions for a Better Tomorrow

Arizona • Colorado • New Mexico • Texas • Utah

Table of Contents

Logos Operating, LLC
Jicarilla 96 002C
Release Closure Report
API #30-039-26827
Unit G, Section 2, T26N, R3W
Rio Arriba County, New Mexico

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Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by Logos Operating, LLC (Logos) to provide sampling activities for the closure of a remediation excavation at the Jicarilla 96 002C well site (API: 30-039-26827). The site is located within Unit G, Section 2, Township 26 North, Range 3 West, Rio Arriba County, New Mexico; see **Figure 1*, Vicinity Map.***

The historical release was the result of a failure of the separator and consisted of a loss of condensate over an unknown period.

Regulatory Standards

The following closure criteria from *19.15.29.12 NMAC* were applied:

Constituent	Method	Limit
Chloride	EPA 300.0	600 mg/kg
Total Petroleum Hydrocarbons (TPH)	EPA Method 8015D	100 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8021B	50 mg/kg
Benzene	EPA Method 8021B	10 mg/kg

The closest groundwater well, SJ-03102, is located 2.91 miles from the site and has a depth to groundwater of 210 feet. The impacted site is 177 feet lower in elevation compared to the SJ-03102 well. The impacted site is also located 1,014 feet from a tributary of Tapicito Creek. The site is 87 feet higher than the tributary, therefore; groundwater is estimated to be between 50 and 100 feet. However, the site was ranked at the most stringent standards per the direction of Jicarilla Oil and Gas Administration (JOGA) representative Mr. Keith Manwell. Siting criteria documentation for the subject well site is provided in **Appendix A, *Siting Documentation.***

Release Closure Activities

Logos' contractor excavated the impacted soil from the site on May 4 and 5, 2021. Approximately 60 cubic yards of petroleum contaminated soil (PCS) were transported to Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted soil remediation facility, *Landfarm #2*. Waste disposal documentation is provided in **Appendix B, *Waste Disposal Documentation***.

Field Screening Activities

Prior to collection of confirmation laboratory samples, field screening for volatile organic compounds (VOCs) was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Prior to performing field screening activities, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas. The soil samples were also screened in the field for TPH per United States Environmental Protection Agency (EPA) Method 418.1 using an Infracal Total Oil and Gas (TOG)/TPH Analyzer. A three-point calibration was completed prior to conducting soil screening. Field screening protocol followed the manufacture's operating procedures. Field screening results are summarized below and in **Appendix C*, Field Notes with EPA 418.1 Field Screening Reports.***

Sample ID	VOC (ppm)	TPH (mg/kg)
CS-1	0.0	64
CS-2	6.4	88
CS-3	0.3	68
CS-4	230.6	1,324
CS-5	56.7	276
CS-4 West Wall +2'	0.7	72

Laboratory Analysis

JOGA representative, Mr. Keith Manwell, was onsite to witness and direct sampling activities. Envirotech personnel collected five (5) five-point composite samples from the excavation on May 5, 2021.

The final dimensions of the excavation measured approximately 16 feet by 23 feet by 5 feet below ground surface (bgs). Samples were collected from the four (4) walls and the base of the excavations. The soil samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech Analytical Laboratory. The soil sample locations are illustrated in **Figure 2, *Site Map*** and in **Appendix C, *Field Notes with EPA 418.1 Field Screening Reports.***

Laboratory Analytical Results

The soil samples were analyzed per analytical methods referenced in *19.15.29.12 NMAC*. The laboratory analytical results were below regulatory standards for all constituents analyzed. Analytical results are summarized in **Table 1, *Summary of Soil Analytical Results*** and **Appendix D, *Laboratory Analytical Report.***

Reclamation Activities

Logos' contractor completed the backfill of the subject excavation on May 14, 2021. The excavation was backfilled with JOGA approved, non-waste containing, earthen material. The site was recontoured and graded to prevent ponding and erosion. The location is an active site; therefore, the area was not prepped for seeding. Backfill photos are provided in **Appendix E**.

Summary and Conclusions

On May 5, 2021, Envirotech personnel completed confirmation sampling of the release closure that was completed at the Jicarilla 96 002C well site. Based on the analytical results; Envirotech recommends requesting a *No Further Action* status from the NMOCD and JOGA regarding the released closure.

Statement of Limitations

The work and services provided were in accordance with NMOCD and JOGA standards. All observations and conclusions provided here are based on the information and current site conditions found at the subject well site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

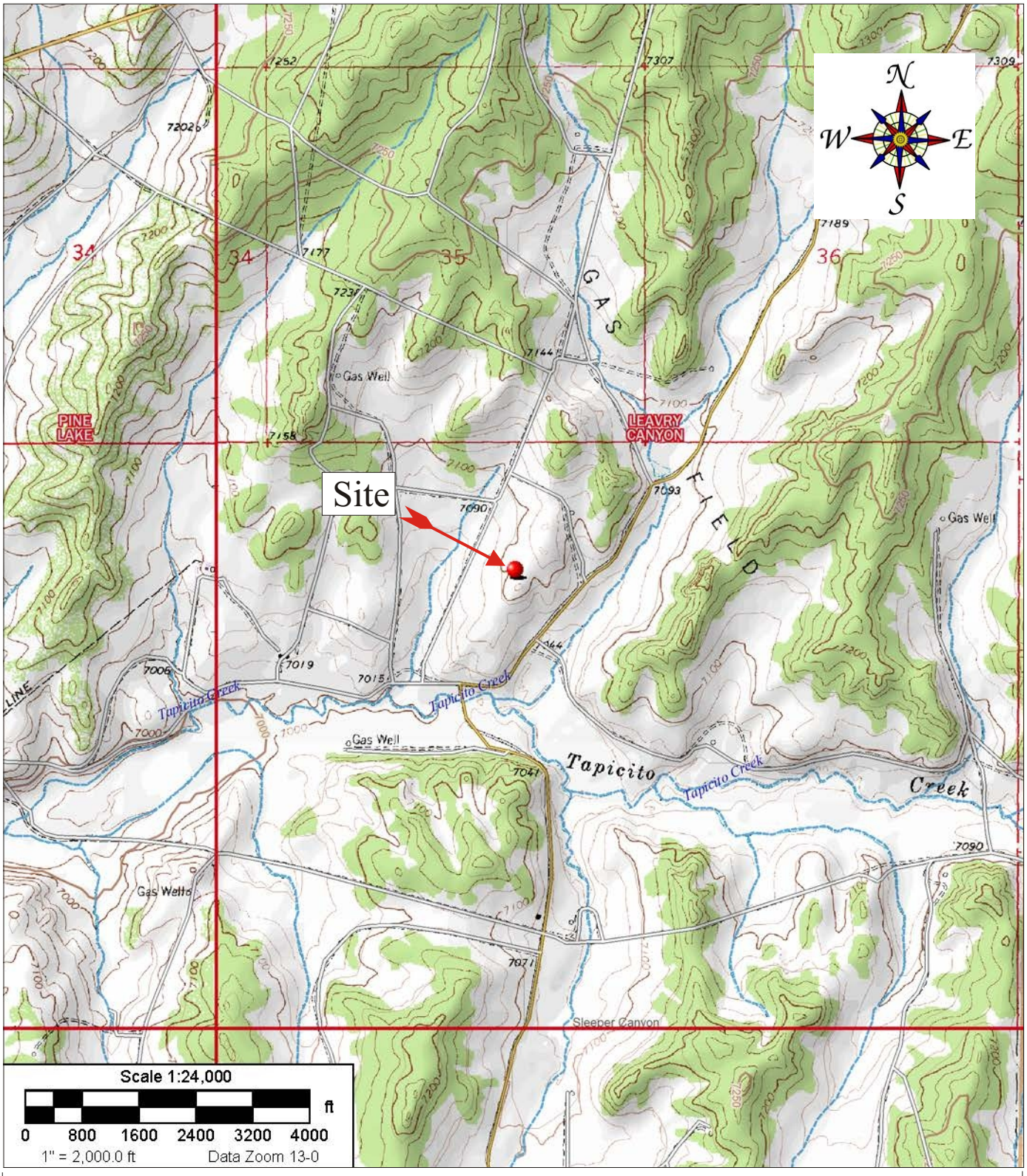
Reviewed by:

Felipe Aragon, CHMM, CES
Environmental Assistant Manager
faragon@envirotech-inc.com

Figures

Figure 1, *Vicinity Map*

Figure 2, *Site Map*



Source: 7.5 Minute, Leavry Canyon, New Mexico U.S.G.S. Topographic Quadrangle Map
Scale: 1:24,000 1" = 2,000

Logos Operating, LLC. Jicarilla 96-002C Well Site Unit G, Section 2, T26N, R3W Rio Arriba County, New Mexico 36.51744, -107.1113	envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	Vicinity Map Figure #1	
Project Number: 12035-0168 / Date Drawn: 5/13/2021		DRAWN BY: Brittany Hall	PROJECT MANAGER: Felipe Aragon

Legend

- Excavation
- CS-1
- CS-2
- CS-3
- CS-4
- CS-5

N

MAP DRAWN BY:
BAH
5/13/2021

REVISIONS BY:
NAME
DATE

APPROVED BY:
NAME
DATE

Scale
1" = 33'

Figure 2, Site Map

Logos Operating, LLC.
Jicarilla 96-002C Well Site
Release Closure Report
Unit G, Section 2, T26N, R3W
Rio Arriba County, New Mexico
Project #12035-0168

envirotech

505-632-0615

Tables

Table 1, *Summary of Soil Analytical Results*

Table 1, Summary of Soil Analytical Results
Logos Operating, LLC Release Closure Report
Jicarilla 96-002C; API: 30-039-26827
Unit G, Section 2, Township 26N, Range 3W
Rio Arriba County, New Mexico
Project #12035-0168

Laboratory Sample ID	Date	Sample Depth (below ground surface)	EPA Method 8015			EPA Method 8021		EPA Method 300.0
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Release Closure Criteria (Table 1 - 19.15.29.12 NMAC)			*100 mg/kg*			*10 mg/kg*	*50 mg/kg*	*600 mg/kg*
CS-01	5/5/2021	0.5 inches - 5 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-02			<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-03			<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-04			<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-05		5.5 feet	<20.0	59.5	<50.0	<0.025	0.9069	<20.0

Appendix A

Siting Criteria Documentation

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Site Name:	**Jicarilla 96 002C**			
API #:	30-039-26827			
Lat/Long:	36.51774, -107.1113			
TRS:	Unit G Sec 2 T26N R3W			
Land Jurisdiction:	Jicarilla			
County:	Rio Arriba			
Wellhead Protection Area Assessment				
Water Source Type (well/spring/stock pond)	**ID**	**Latitude**	**Longitude**	**Distance**
Tapicito Creek				1,735
Distance to Nearest Significant Watercourse				
1,014 to tributary of Tapicito Creek				
Depth to Groundwater Determination				
Cathodic Report/Site Specific Hydrogeology				
Elevation Differential	site 7,115 creek 7028 = 87 ft difference			
Water Wells				
Sensitive Receptor Determination				
<300' of any continuously flowing watercourse or any other significant watercourse				No
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water				No
<300' of an occupied permanent residence, school, hospital, institution or church				No
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes				No
<1000' of any water well or spring				No
Within incorporated municipal boundaries or within a defined municipal fresh water well				No
<300' of a wetland				No
Within the area overlying a subsurface mine				No
Within an unstable area				No
Within a 100-year floodplain				No
DTW Determination	**≤50** ☐	**50-100** ☑	**>100** ☑	
Benzene	**10**	**10**	**10**	
BTEX (mg/kg)	**50**	**50**	**50**	
8015 TPH (GRO/DRO) (mg/kg)	**Not Applicable**	**1,000**	**1,000**	
8015 TPH (GRO/DRO/MRO) (mg/kg)	**100**	**2,500**	**2,500**	
Chlorides (mg/kg)	**600**	**10,000**	**20,000**	

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https://www.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75

Apps | Bookmarks | Concentration Musi... | Board Meetings | S... | New Mexico - Oil C... | Environment / Cons... | IPaC: Home | FedConnect: Log In | Active Procurements | Navajo Nation RFP

NM OCD OIL AND GAS MAP

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map User Guide

Layer List

- Oil and Gas Wells
- OCD Districts and Offices
- NM Oil and Gas Production Areas
- Public Land Survey System
- NM SLO Participating Area and Unit Agreement Boundaries
- NM SLO Oil and Gas Leases
- BLM Participating Areas
- BLM Unitization Agreements
- Political Boundaries and Transportation
- Mineral and Surface Ownership
- Hydrology
  - OSE Streams
  - PLJV Probable Playas
  - OSE Water-bodies

36.51774, -107.1113

Show search results for 36.517...

Measurement

Feet

Measurement Result

1,014.4 Feet

Clear

30-039-26549
30-039-06755
30-039-21165
30-039-26827
30-039-26571
30-039-26552
30-039-82347
30-039-21237
30-039-06659

Oil Conservation Division of the New Mexico Energy, Minerals and Natural Res...

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Appendix B

Waste Disposal Documentation

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Bill of Lading

MANIFEST # 68382

GENERATOR Logo's

POINT OF ORIGIN Sec 96 # 2C

TRANSPORTER Kelly oil Field

DATE 5-4-21 JOB # 12035-0155

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII-5	cont soil	F-22	20	—	—	—	D102	14:45	Juan Viramontes
				20						

RESULTS			LANDFARM EMPLOYEE	NOTES
<299	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

SAN JUAN PRINTING 021971E

envirotech

BOL# 68382

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5-4-21 TIME 14:45

Attach test strip here

CUSTOMER Logos

SITE SJC 96 II 2C

DRIVER Juan Viramontes

SAMPLE (Soil) Straight _____ With Dirt _____

CHLORIDE TEST -299 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 14:45 Time completed 14:50

PASS YES ✓ NO _____

SAMPLER/ANALYST _____

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 68389
GENERATOR Logos
POINT OF ORIGIN Sec 96-2C
TRANSPORTER Kelley Oil Field
DATE 05.05.21 JOB # 12035-0155

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II 5	Cont Soil	F21	20	-	-	-	DT 2	1145	Juan V
2	"	" "	F21	20	-	-	-	DT 2	1735	Juan V
				40						

RESULTS			LANDFARM EMPLOYEE	NOTES
<299	CHLORIDE TEST	1	Gary Robinson	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

SAN JUAN PRINTING 021971E

envirotech

BOL# 68389

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05.05.21 TIME 1145

CUSTOMER Logos

SITE Jic 96 ~~#96~~ 2.C

DRIVER Juan Viramontes

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST 299 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1145 Time completed 1154

PASS YES ✓ NO _____

SAMPLER/ANALYST Gary Robinson

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

Appendix C

Field Notes

CLIENT: Logos	envirotech		Envmtl. Spclst: BH / MF
CLIENT/JOB #: 12035-0168			Arrival Time: 115 Departure Time: 1445
START DATE: 5/5/2021	505-632-0615 | 1-800-362-1879		LAT: 36.51774
FINISH DATE:	5696 US Highway 64		LONG: -107.1113
Page # 1 of 1	Farmington, NM 87401		

LOCATION: Name: Jicarilla 96 Well #: 002C API: 30-039-~~22047~~ 26927

County: Rio Arriba State: NM HWY-MM:

Cause of Release: Leaking ~~Wellhead~~ Separator Material Released: ~~Crude Oil~~ Condensate Amt Released: Unknown

QUAD/UNIT: G SEC: 2 TWP: 26N RNG: 3W PM:

Spill Located Approximately: 0 FT. FROM fence of AST 6-tk

Excavation Approx: 16 FT. X 23 FT. X 5'3" FT. Volume (cy/tons):

Disposal Facility: Envirotech LF

Land Use: Rural Land Owner: Jicarilla

REGULATORY AGENCY: JOGA TPH CLOSURE STD: 100

ADDITIONAL CLOSURE REQUIREMENTS:

FIELD 418.1 / PID ANLAYSIS

SAMPLE NAME	SAMPLE DESCRIPTION / NOTE	TIME	READING	CALC. ppm	PID/OV	TIME	LABORATORY ANALYSIS
~~200~~ Standard				TPH	VOC		
CS-2	East Wall	1200	22	88	6.4	1231	
CS-1	South Wall	1210	16	64	0.0	1232	
CS-3	North Wall	1220	17	68	0.3	1235	
CS-4	West Wall	1230	331	1324	230.6	1247	
CS-5	Base	1240	69	276	56.7	1352	
CS-4 ~~@~~ @	West Wall +2'	1348	18	72	0.7	1354	

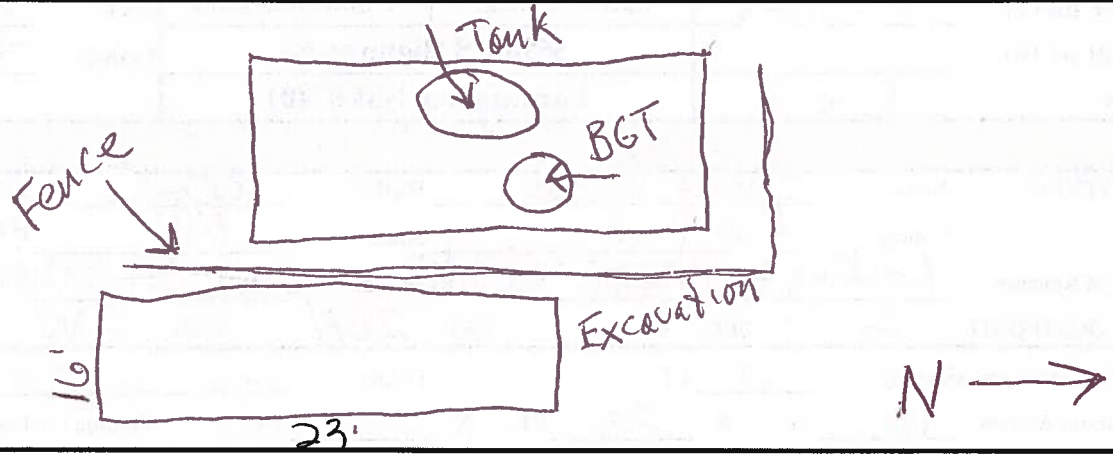
NOTES:

CS-COMPOSITE SAMPLE
GS-GRAB SAMPLE
SB-SOIL BORING
TP-TEST PIT
DU- DECISION UNIT
ST-STATION

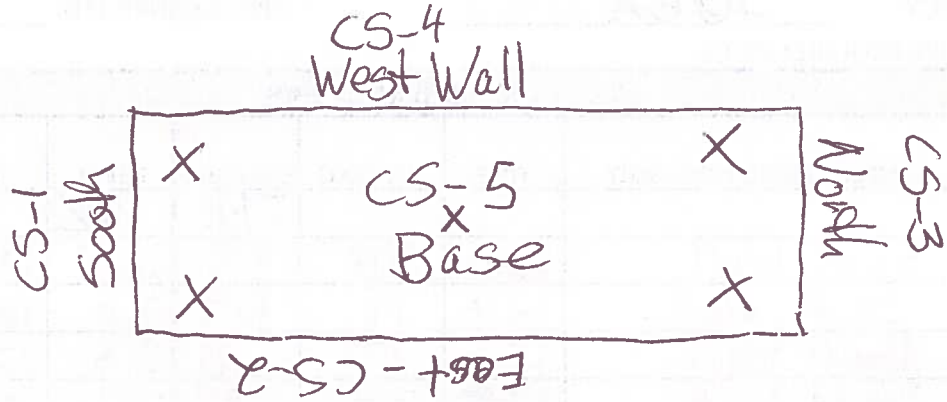
Keith Manwell w/ JOGA on site.
Jason Meechan w/ LOGOS on site
Kelly Field Services on site as well, excavating
Keith Manwell w/ JOGA left site @ 1230

Base is competent sandstone couldn't excavate

SITE PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*

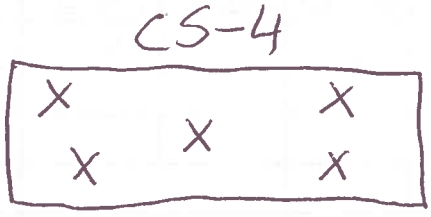


EXCAVATION OVERVIEW:



EXCAVATION PROFILE VIEWS:

Sample Name:



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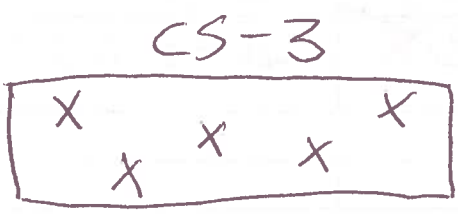

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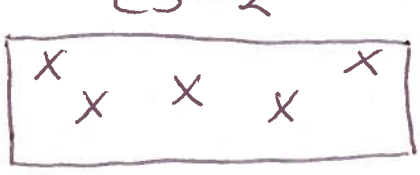

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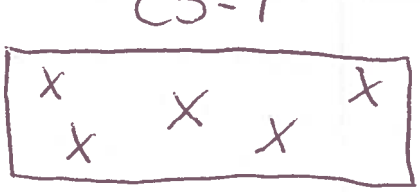

envirotech

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 5-May-21

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	197
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Brittany Hall

Analyst

5/5/2021

Date

Brittany Hall

Print Name

Review

5/5/2021

Date

Felipe Aragon, CES, CHMM

Print Name

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	1	Date Reported:	5/5/2021
Sample ID:	CS-1	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**64**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	2	Date Reported:	5/5/2021
Sample ID:	CS-2	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**88**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	3	Date Reported:	5/5/2021
Sample ID:	CS-3	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**68**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	4	Date Reported:	5/5/2021
Sample ID:	CS-4	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,320**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	5	Date Reported:	5/5/2021
Sample ID:	CS-5	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**276**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0168
Sample No.:	6	Date Reported:	5/5/2021
Sample ID:	CS-4 + 2'	Date Sampled:	5/5/2021
Sample Matrix:	Soil	Date Analyzed:	5/5/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**72**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 96-002C**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

Appendix D

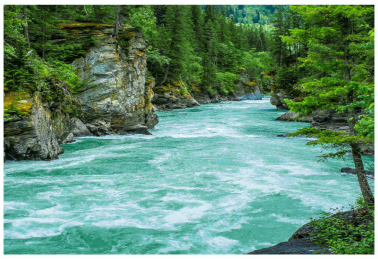
Laboratory Analytical Report

envirotech

Practical Solutions for a Better Tomorrow

Report to:

Felipe Aragon



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Logos Operating, LLC

Project Name:	Jicarilla 96 002C Confirmation Sampling
Work Order:	E105017
Job Number:	12035-0168
Received:	5/6/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/13/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/13/21

Felipe Aragon
2010 Afton Place
Farmington, NM 87401

Project Name: Jicarilla 96 002C Confirmation Sampling
Workorder: E105017
Date Received: 5/6/2021 12:50:00PM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/6/2021 12:50:00PM, under the Project Name: Jicarilla 96 002C Confirmation Sampling.

The analytical test results summarized in this report with the Project Name: Jicarilla 96 002C Confirmation Sampling apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Office:

Lynn Estes
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	**Reported:**
2010 Afton Place	Project Number:	12035-0168	
Farmington NM, 87401	Project Manager:	Felipe Aragon	05/13/21 09:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E105017-01A	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
	E105017-01B	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
CS-2	E105017-02A	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
	E105017-02B	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
CS-3	E105017-03A	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
	E105017-03B	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
CS-4	E105017-04A	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
	E105017-04B	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
CS-5	E105017-05A	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.
	E105017-05B	Soil	05/05/21	05/06/21	Glass Jar, 4 oz.

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

CS-1

E105017-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Benzene	ND	0.0250	1	05/07/21	05/10/21	
Ethylbenzene	ND	0.0250	1	05/07/21	05/10/21	
Toluene	ND	0.0250	1	05/07/21	05/10/21	
o-Xylene	ND	0.0250	1	05/07/21	05/10/21	
p,m-Xylene	ND	0.0500	1	05/07/21	05/10/21	
Total Xylenes	ND	0.0250	1	05/07/21	05/10/21	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/21	05/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.5 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2120008
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/21	05/10/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/10/21	05/10/21	
Surrogate: n-Nonane		*90.2 %*	*50-200*	*05/10/21*	*05/10/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2120009
Chloride	ND	20.0	1	05/10/21	05/10/21	

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

CS-2

E105017-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Benzene	ND	0.0250	1	05/07/21	05/10/21	
Ethylbenzene	ND	0.0250	1	05/07/21	05/10/21	
Toluene	ND	0.0250	1	05/07/21	05/10/21	
o-Xylene	ND	0.0250	1	05/07/21	05/10/21	
p,m-Xylene	ND	0.0500	1	05/07/21	05/10/21	
Total Xylenes	ND	0.0250	1	05/07/21	05/10/21	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/21	05/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2120008
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/21	05/10/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/10/21	05/10/21	
Surrogate: n-Nonane		*93.3 %*	*50-200*	*05/10/21*	*05/10/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2120009
Chloride	ND	20.0	1	05/10/21	05/10/21	

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

CS-3

E105017-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Benzene	ND	0.0250	1	05/07/21	05/10/21	
Ethylbenzene	ND	0.0250	1	05/07/21	05/10/21	
Toluene	ND	0.0250	1	05/07/21	05/10/21	
o-Xylene	ND	0.0250	1	05/07/21	05/10/21	
p,m-Xylene	ND	0.0500	1	05/07/21	05/10/21	
Total Xylenes	ND	0.0250	1	05/07/21	05/10/21	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/21	05/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.9 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2120008
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/21	05/10/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/10/21	05/10/21	
Surrogate: n-Nonane		*93.2 %*	*50-200*	*05/10/21*	*05/10/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2120009
Chloride	ND	20.0	1	05/10/21	05/10/21	

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

CS-4

E105017-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Benzene	ND	0.0250	1	05/07/21	05/10/21	
Ethylbenzene	ND	0.0250	1	05/07/21	05/10/21	
Toluene	ND	0.0250	1	05/07/21	05/10/21	
o-Xylene	ND	0.0250	1	05/07/21	05/10/21	
p,m-Xylene	ND	0.0500	1	05/07/21	05/10/21	
Total Xylenes	ND	0.0250	1	05/07/21	05/10/21	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/21	05/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*05/07/21*	*05/10/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2120008
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/21	05/10/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/10/21	05/10/21	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*05/10/21*	*05/10/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2120009
Chloride	ND	20.0	1	05/10/21	05/10/21	

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

CS-5

E105017-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Benzene	ND	0.0250	1	05/07/21	05/11/21	
Ethylbenzene	**0.0529**	0.0250	1	05/07/21	05/11/21	
Toluene	**0.108**	0.0250	1	05/07/21	05/11/21	
o-Xylene	**0.147**	0.0250	1	05/07/21	05/11/21	
p,m-Xylene	**0.599**	0.0500	1	05/07/21	05/11/21	
Total Xylenes	**0.746**	0.0250	1	05/07/21	05/11/21	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*05/07/21*	*05/11/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/21	05/11/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*05/07/21*	*05/11/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2120008
Diesel Range Organics (C10-C28)	**59.5**	25.0	1	05/10/21	05/10/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/10/21	05/10/21	
Surrogate: n-Nonane		*94.2 %*	*50-200*	*05/10/21*	*05/10/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2120009
Chloride	ND	20.0	1	05/10/21	05/10/21	

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	**Reported:**
2010 Afton Place	Project Number:	12035-0168	
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119027-BLK1)									Prepared: 05/07/21 Analyzed: 05/10/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.17*		*8.00*		*89.7*	*70-130*			
LCS (2119027-BS1)									Prepared: 05/07/21 Analyzed: 05/10/21
Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.6	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.41*		*8.00*		*92.6*	*70-130*			
Matrix Spike (2119027-MS1)				**Source: E105013-01**					Prepared: 05/07/21 Analyzed: 05/10/21
Benzene	5.25	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133			
Toluene	5.34	0.0250	5.00	ND	107	61-130			
o-Xylene	5.26	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			
Matrix Spike Dup (2119027-MSD1)				**Source: E105013-01**					Prepared: 05/07/21 Analyzed: 05/10/21
Benzene	5.08	0.0250	5.00	ND	102	54-133	3.30	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133	2.80	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	3.26	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	2.62	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	2.69	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	2.67	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	**Reported:**
2010 Afton Place	Project Number:	12035-0168	
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119027-BLK1)									Prepared: 05/07/21 Analyzed: 05/10/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.40*		*8.00*		*105*	*70-130*			
LCS (2119027-BS2)									Prepared: 05/07/21 Analyzed: 05/10/21
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.41*		*8.00*		*105*	*70-130*			
Matrix Spike (2119027-MS2)				**Source: E105013-01**					Prepared: 05/07/21 Analyzed: 05/10/21
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.40*		*8.00*		*105*	*70-130*			
Matrix Spike Dup (2119027-MSD2)				**Source: E105013-01**					Prepared: 05/07/21 Analyzed: 05/10/21
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	2.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.22*		*8.00*		*103*	*70-130*			

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	**Reported:**
2010 Afton Place	Project Number:	12035-0168	
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2120008-BLK1)									Prepared: 05/10/21 Analyzed: 05/10/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*46.7*		*50.0*		*93.4*	*50-200*			
LCS (2120008-BS1)									Prepared: 05/10/21 Analyzed: 05/10/21
Diesel Range Organics (C10-C28)	436	25.0	500		87.2	38-132			
Surrogate: n-Nonane	*41.8*		*50.0*		*83.6*	*50-200*			
Matrix Spike (2120008-MS1)				**Source: E105020-01**					Prepared: 05/10/21 Analyzed: 05/10/21
Diesel Range Organics (C10-C28)	458	25.0	500	ND	91.5	38-132			
Surrogate: n-Nonane	*43.0*		*50.0*		*86.1*	*50-200*			
Matrix Spike Dup (2120008-MSD1)				**Source: E105020-01**					Prepared: 05/10/21 Analyzed: 05/10/21
Diesel Range Organics (C10-C28)	466	25.0	500	ND	93.2	38-132	1.78	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.1*	*50-200*			

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	**Reported:**
2010 Afton Place	Project Number:	12035-0168	
Farmington NM, 87401	Project Manager:	Felipe Aragon	5/13/2021 9:31:20AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2120009-BLK1)									Prepared: 05/10/21 Analyzed: 05/10/21
Chloride	ND	20.0							
LCS (2120009-BS1)									Prepared: 05/10/21 Analyzed: 05/10/21
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2120009-MS1)				**Source: E105011-12**					Prepared: 05/10/21 Analyzed: 05/10/21
Chloride	453	20.0	250	189	106	80-120			
Matrix Spike Dup (2120009-MSD1)				**Source: E105011-12**					Prepared: 05/10/21 Analyzed: 05/10/21
Chloride	430	20.0	250	189	96.4	80-120	5.27	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Logos Operating, LLC	Project Name:	Jicarilla 96 002C Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0168	**Reported:**
Farmington NM, 87401	Project Manager:	Felipe Aragon	05/13/21 09:31

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client: Logos Operating	**Bill To**
Project: Jicarilla 96 002C Confirmation Sampling	Attention:
Project Manager: Felipe Aragon	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email: Faragon Tknight Gcrabtree Bhall Igarcia Mflorez Fitt Dcarter	
Report due by:	

Lab Use Only

Lab WO#	Job Number
E 105017	12035-0168

TAT

1D	2D	3D	Standard
			x

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	CO 910.1 Table	TDS	PCBs	Remarks
1210	5/5/2021	S	2	CS-1	1	x	x	x			x				2 4-oz jars cool
1215	"	"	"	CS-2	2	x	x	x			x				
1220	"	"	"	CS-3	3	x	x	x			x				
1345	"	"	"	CS-4	4	x	x	x			x				
1230	"	"	"	CS-5	5	x	x	x			x				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: BHall

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Bhall	5/6/21	1250	Raia Schwang	5/6/21	12:50
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 5/6/2021 4:04:15PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Logos Operating, LLC	Date Received:	05/06/21 12:50	Work Order ID:	E105017
Phone:	(505)215-8215	Date Logged In:	05/06/21 16:01	Logged In By:	Alexa Michaels
Email:		Due Date:	05/13/21 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Brittany Hall
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Appendix E

Site Photography

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla 96 002C Well Site
Rio Arriba County, New Mexico
Project #12053-0168
May 5, 2021

Picture 1: Excavation (View 1)

Picture 2: Excavation (View 2)

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla 96 002C Well Site
Rio Arriba County, New Mexico
Project #12053-0168
May 5, 2021

Picture 3: Backfilled Area (View 1)

Picture 4: Backfilled Area (View 2)

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

COMMENTS

Action 47183

COMMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 47183
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
nvelez	As a reminder, any future releases MUST follow the timelines specified within 19.15.29 NMAC regardless of changes in personnel or any circumstance that an operator deems justifiable in delaying the require notifications to OCD.	1/19/2022

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 47183

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 47183
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/19/2022