

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	nAPP2103256004
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)	nAPP2103256004
Contact mailing address	2010 Afton Place, Farmington NM 87413		

Location of Release Source

Latitude 36.14669 Longitude -107.14092
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Jicarilla O 3E	Site Type	Well
Date Release Discovered	2/1/2021	API# (if applicable)	30-043-21165

Unit Letter	Section	Township	Range	County
O	10	22N	3W	Sandoval

Surface Owner: State Federal Tribal Private (Name: Jicarilla)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	1.5bbls	Volume Recovered (bbls)	0
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

The cause of the release was on the separator from the pressure release valve (PRV) that froze. The valve stayed opened and continued to release. The affected area was around the separator and on the separator. Jicarilla requested LOGOS to remove separator and remediate due to historic staining. As the roustabout crew cleaned the area, LOGOS had an estimated of 22 yards of contaminated soil removed which caused this to be more than 5bbls.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
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: <u>Marie E. Florez</u> Title: <u>Regulatory Specialist</u> Signature: <u>Marie E. Florez</u> Date: <u>2/1/2021</u> email: <u>mflorez@logosresourcesllc.com</u> Telephone: <u>505-419-8420</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	nAPP2103256004
District RP	
Facility ID	
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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?	<u>≤ 50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: 3/25/2021

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2103256004
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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: Marie E. Florez Title: Regulatory Specialist

Signature: Marie E. Florez Date: 3/24/2021

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

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: Nelson Velez Date: 01/21/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



March 26, 2021

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Incident # nAPP2103256004

API: 30-043-21165

Well Site: Jicarilla O 003E Located in Unit O, Section 10, Township 22 North, Range 3 West, 919 FSL & 1738 FEL, Rio Arriba New Mexico.

RE: On January 12, 2021, the cause of the release was on the separator from the pressure release valve (PRV) that froze. The valve stayed opened and continued to release. The affected area was around the separator and on the separator. Jicarilla requested LOGOS to remove separator and remediate due to historic staining. As the roustabout crew cleaned the area, LOGOS had an estimated of 22 yards of contaminated soil removed which caused this to be more than 5bbls and reported to NMOCD February 1, 2021.

Dear Mr. Smith,

On January 12, 2021, LOGOS wiped separator down and scooped up the larger amounts of produced oil and placed in the steel BGT. The ground was frozen with snow patches. On January 13, 2021, LOGOS hydro-vac'd 2bbls of contaminated material. The crew placed a mix of contaminated soil and gravel from the affected area into the steel below grade tank (BGT). The crew hauled and disposed 10bbls at the Envirotech land farm.

On January 29, 2021, Kelley Oilfield Services began remediation activity. See attached report from Envirotech for the rest of the work details.

Jicarilla (EPO) was contacted and on location during the remediation.

Sincerely,

Marie E. Florez

Marie E. Florez
Regulatory Specialist
Cell: 505-419-8420

From: [Smith, Cory, EMNRD](#)
To: [Tamra Sessions](#); [Powell, Brandon, EMNRD](#)
Cc: [Marie Florez](#); [Bryan Lovato](#); [Jason Meechan](#); [Keith Manwell-JIC EPO \(kcmanwell@yahoo.com\)](#)
Subject: RE: Jicarilla O 3E - Notification for Final Sampling - Variance Request
Date: Tuesday, February 2, 2021 8:51:14 AM
Attachments: [image001.jpg](#)

Tamera,

OCD approves the alternative sampling request as the surface owner requested it and was onsite.

Please submit your C-141 no later than February 13, 2021

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Tamra Sessions <tsessions@logosresourcesllc.com>
Sent: Monday, February 1, 2021 3:03 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Marie Florez <mflorez@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Jason Meechan <jmeechan@logosresourcesllc.com>; Keith Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>
Subject: [EXT] Jicarilla O 3E - Notification for Final Sampling - Variance Request

DO NOT NEED TO NOTIFY UNLESS WE HAUL 12 CUBIC YARDS OR MORE.

Keith Manwell (Jicarilla EPO) was notified of this incident on January 12, 2021 but this was a non-reportable incident of approximately 1.5bbl at the time.

LOGOS is now notifying the OCD and requesting a variance to the 48 hour notice for final sample.

Friday 1/29/21, (with Keith Manwell onsite) we dug and hauled approximately 10 cyds of contaminated soil.

Today, (with Keith Manwell onsite) Envirotech did field test confirmation sampling which came back hot. Additional digging was done for an estimated combined total of 22 cyds.

Jicarilla requested additional remediation and to remove the separator, due to historic staining below the separator.

Envirotech conducted confirmation sampling 2/1/21.

API: 30-043-21165
Well Name: Jicarilla O 3E
Unit Letter: O
Section: 10
Township: 22N
Range: 3W
Lat: 36.14669

Long: -107.14092

Tamra Sessions
Regulatory Specialist
Office 505-324-4145
tsessions@logosresourcesllc.com



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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-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, January 12, 2021
2. Originating Site: Jicarilla O 3E
3. Location of Material (Street Address, City, State or ULSTR): UL: 10 Section 10, Township: 22N Range: 3W
4. Source and Description of Waste: Dirt contaminated with produced oil.
Estimated Volume 5yds yd3 / bbls Known Volume (to be entered by the operator at the end of the haul) yd3 / 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)
[X] 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 [X] 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

Method of Treatment and/or Disposal:

- [] Evaporation [] Injection [] Treating Plant [X] Landfarm [] Landfill [] Other

Waste Acceptance Status:

- [] APPROVED [] DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Marie E. Florez TITLE: Regulatory Specialist DATE: 1/21/2021

SIGNATURE: Marie E. Florez TELEPHONE NO.: 505-419-8420
Surface Waste Management Facility Authorized Agent

Release Closure Report

Jicarilla O 3E

API #30-043-21165

Unit O, Section 10, T22N, R3W

Sandoval County, New Mexico

February 17, 2021

Project #12035-0161

NMOCD Incident #nAPP2103256004



Ms. Marie Florez
Regulatory Specialist
2010 Afton Plance
Farmington, New Mexico

Phone: (505) 787-2218

E-mail: mflorez@logosresourcesllc.com



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API #30-043-21165
Unit O, Section 10, T22N, R3W
Sandoval County, New Mexico

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Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted Logos Operating, LLC (Logos) to provide sampling activities for the closure of a release at the Jicarilla O 3E well site (API: 30-043-21165) located within Unit O, Section 10, Township 22 North, Range 3 West, Sandoval County, New Mexico; see **Figure 1, Vicinity Map**.

The release was the result of a frozen pressure release valve located on the separator and consisted of an estimated 1.5 barrels (bbls) of crude oil. Upon further investigation, historical staining was discovered, and the estimated release volume was adjusted to greater than 5 bbls, which included the most recent release and historical staining.

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 site is located within 300 feet of Five Lakes Canyon Wash. The nearest well is located approximately 1.6 miles from the site and indicates that depth to water is at 115 feet below ground surface (bgs). The site elevation is approximately 7,087 above mean sea level (AMSL) and the well elevation is approximately 7,189 AMSL. The difference in elevation places groundwater less than 50 feet bgs. Siting criteria documentation for the subject well site is provided in **Appendix A, Siting Documentation**.

Release Closure Activities

Logos contractors performed excavation of the site on January 29 through February 1, 2021. Twenty-two (22) cubic yards of petroleum contaminated soil (PCS) were transported to Envirotech's NMOCD permitted soil remediation facility. Waste disposal documentation is provided in **Appendix B, Waste Disposal Documentation**.

February 1, 2021

The excavation was monitored utilizing field screening methods conducted by Envirotech on February 1, 2021. At that time, the excavation measured approximately 15 feet by 10 feet with a depth ranging from 2 feet to 5 feet bgs. 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)
Top shelf	6.7	340
Bottom Shelf	0.0	192
Top Shelf 2	0.0	116
Bottom Shelf 2	0.05	128
Bottom Shelf (SC-02)	0.05	96
Top Shelf (SC-01)	0.0	88

Jicarilla Oil and Gas Administration (JOGA) representative Mr. Keith Manwell was onsite to witness and direct sampling activities.

Laboratory Analysis

Envirotech personnel collected two (2) five-point composite samples from the bases of excavation on February 1, 2021. 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**.

Laboratory Analytical Results

The soil sample was 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 below and **Appendix D**.

Sample Description	Date	Sample Depth	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)			1,000 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
			2,500 mg/kg					
Closure Sample								
SC-01	2/1/2021	2 feet	<20.0	<25.0	<50.0	<0.0250	<0.1	68.3
SC-02	2/1/2021	5 feet	<20.0	<25.0	<50.0	<0.0250	<0.1	46.8

Reclamation Activities

Logos's contractor completed the backfill of the subject excavation on February 2, 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 February 1, 2021, Envirotech personnel completed confirmation sampling of the release closure that was completed at the Jicarilla O 3E well site. Based on the analytical results; Envirotech recommends requesting a **No Further Action** status from the NMOCD and JOGA regarding the release 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.

Reviewed by:



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



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

Figures

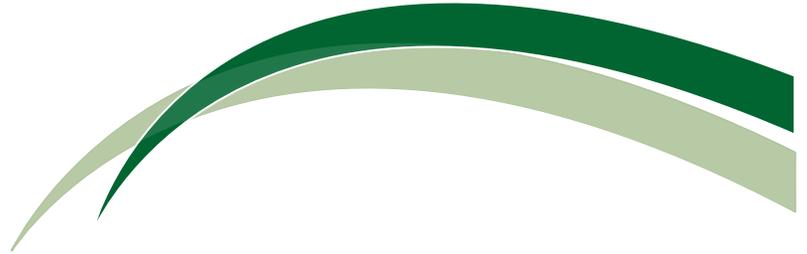
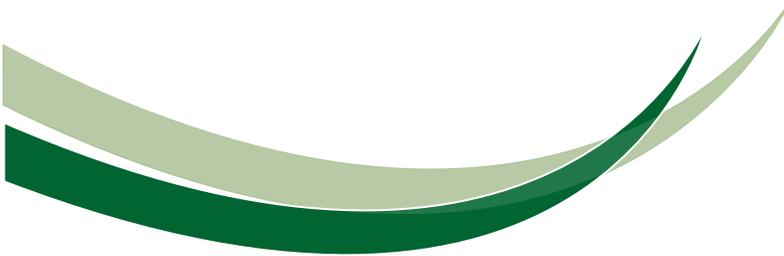
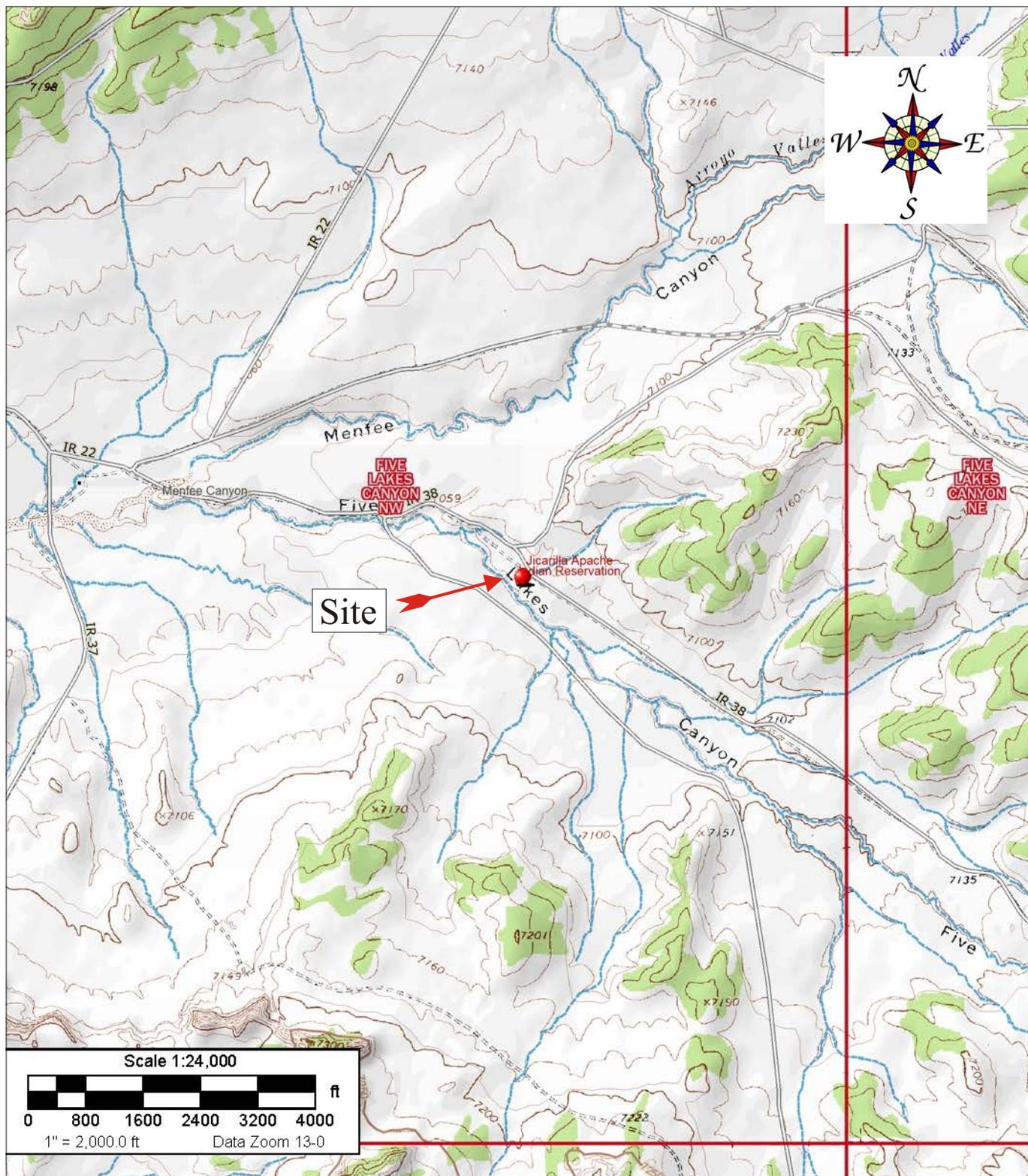


Figure 1, *Vicinity Map*
Figure 2, *Site Map*



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

<p>Logos Operating, LLC. Release Closure Report Jicarilla O 3E Well Site API: 30-043-21165 Section 10, Township 22N, Range 3W Sandoval County, New Mexico</p>	 <p>5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615</p>	<p>Vicinity Map</p>	
<p>Project Number: 12035-0161 Date Drawn: 02/11/2021</p>		<p>Figure #1</p> <p>DRAWN BY: Brittany Hall PROJECT MANAGER: Felipe Aragon</p>	



Legend	
	- Excavation
	- SC-01 (Composite Sample)
	- SC-02 (Composite Sample)



MAP DRAWN BY:
BAH
2/11/2021

REVISIONS BY:
NAME
DATE

APPROVED BY:
NAME
DATE

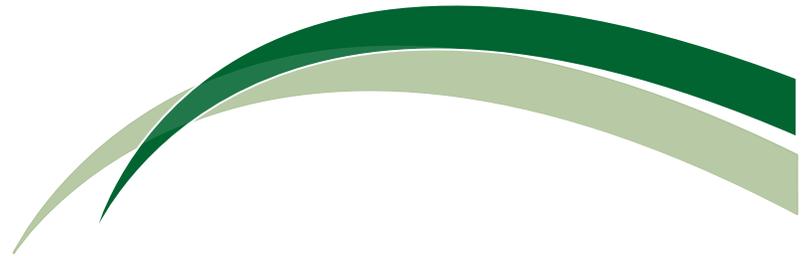
Scale
1" = 40'

Figure 2, Site Map

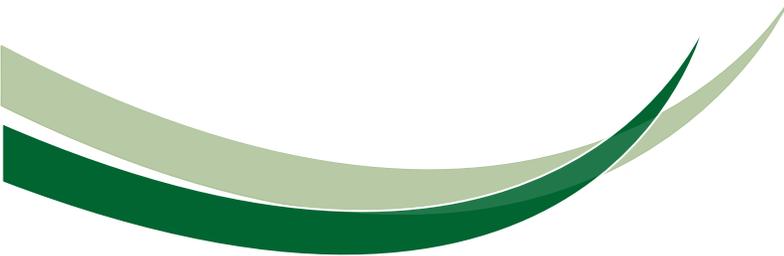
Logos Operating, LLC.
Release Closure Report
Jicarilla O 3E Well Site
API: 30-043-21165
Section 10 Township 22N, Range 3W
Sandoval County, New Mexico
Project #12035-0161



Appendix A



Siting Criteria Documentation



Practical Solutions for a Better Tomorrow

Site Name: Jicarilla O 3E				
API #: 30-043-21165				
Lat/Long: 36.14669, 107.14092				
TRS: Unit O Sec 10 T22N R3W				
Land Jurisdiction: Jicarilla				
County: Sandoval				
Wellhead Protection Area Assessment				
Water Source Type (well/spring/stock pond)	ID	Latitude	Longitude	Distance
Distance to Nearest Significant Watercourse				
less than 300 feet to Five Lakes Canyon wash				
Depth to Groundwater Determination				
Cathodic Report/Site Specific Hydrogeology	record for well 1.6 miles 30-043-21006 indicates dtw at 115 ft bgs			
Elevation Differential	site elevation 7,087; other well 7,189 - DTW <50 ft			
Water Wells				
Sensitive Receptor Determination				
<300' of any continuously flowing watercourse or any other significant watercourse				Yes
<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 <input checked="" type="checkbox"/>	50-100 <input type="checkbox"/>	>100 <input type="checkbox"/>	
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	



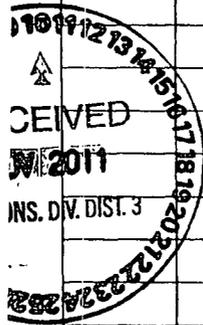
Practical Solutions of a Better Tomorrow

MO-TE DRILLING, INC.

DAY

DRILLER <u>Tim</u>		LEFT TOWN	ARRIVED FIELD
HELPER <u>Cameron</u>		LEFT FIELD	ARRIVED TOWN
HELPER		TOTAL FOOTAGE TODAY	
RIG NO. <u>209</u>	DATE <u>10/12/11</u>	CLIENT <u>Elm Ridge</u>	
BEGIN WORK ON HOLE NO. <u>Sharon Amigo's #10</u>	AT	FEET	
BEGIN WORK ON HOLE NO.	AT	FEET	

TIME		ACTIVITY
FROM	TO	
		Move to location, Rig-up. Drill 6 1/4" to 98', bridged off. 87' Drilled out of hole. Ran water probe to 87', No water detected. THT. Drill 6 1/4" to 115', bridged off. Drilled out of hole. Ran water probe. water detected @ 115'. R.O.M.O. Filled in hole.
		0-115' - sand/sandstone.



BIT RECORD			
SIZE & MAKE	SERIAL NO	FOOTAGE	
		Water	1/2 day rig 1750'
			Survey tool 100'
			Tax 116'
			Total 1966'
CIRCULATION MATERIAL			
QUAN	UNIT	MATERIAL	

NO. OF LOADS OF WATER _____ SOURCE _____

New Mexico Office of the State Engineer Wells with Well Log Information



No wells found.

PLSS Search:

Township: 22N **Range:** 03W

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

2/10/21 11:54 AM

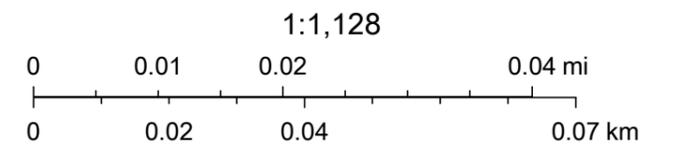
WELLS WITH WELL LOG INFORMATIO

OCD Well Locations



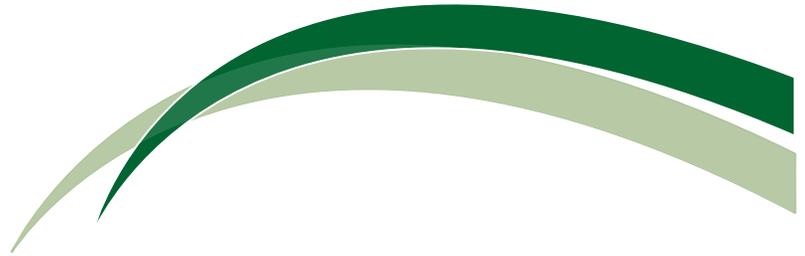
2/10/2021, 11:27:01 AM

- | | | | | |
|---------------------|------------------------------|------------------------------------|-----------------------------------|-----------------------------------------------|
| Wells - Large Scale | ✱ CO2, Temporarily Abandoned | 🔗 Injection, Active | ● Oil, Cancelled | ▲ Salt Water Injection, New |
| ? undefined | ✱ Gas, Active | 🔗 Injection, Cancelled | ● Oil, New | ▲ Salt Water Injection, Plugged |
| ● Miscellaneous | ✱ Gas, Cancelled | 🔗 Injection, New | ● Oil, Plugged | ▲ Salt Water Injection, Temporarily Abandoned |
| ✱ CO2, Active | ✱ Gas, New | 🔗 Injection, Plugged | ● Oil, Temporarily Abandoned | ● Water, Active |
| ✱ CO2, Cancelled | ✱ Gas, Plugged | 🔗 Injection, Temporarily Abandoned | ▲ Salt Water Injection, Active | ● Water, Cancelled |
| ✱ CO2, New | ✱ Gas, Temporarily Abandoned | ● Oil, Active | ▲ Salt Water Injection, Cancelled | ● Water, New |
| ✱ CO2, Plugged | | | | |

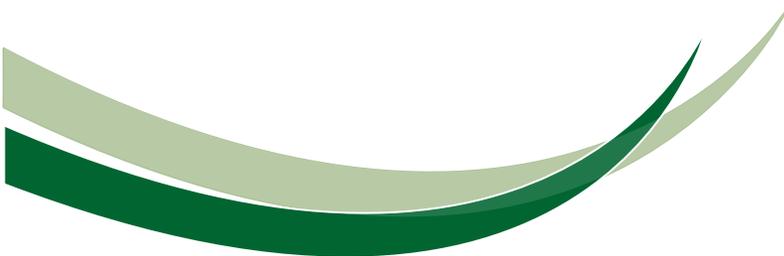


GeoEye, Maxar, Microsoft, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE, Garmin, iPC

Appendix B



Waste Disposal Documentation



Practical Solutions for a Better Tomorrow

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

Form C-138
Revised August 1, 2011

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

*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	January 12, 2021
2. Originating Site: Jicarilla O 3E	
3. Location of Material (Street Address, City, State or ULSTR): UL: 10 Section 10, Township: 22N Range: 3W	
4. Source and Description of Waste: Dirt contaminated with produced oil.	
Estimated Volume <u>5</u> yds <u> </u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u> </u> yd ³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
I, <u>Marie E. Florez</u> , representative or authorized agent for <u>LOGOS Operating, LLC</u> 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)	
<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 checked="" 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)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	
I, <u>Marie E. Florez</u> , representative for <u>LOGOS Operating, LLC</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.	
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

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: Marie E. Florez

TITLE: Regulatory Specialist

DATE: 1/21/2021

SIGNATURE: Marie E. Florez
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-419-8420



envirotech

Bill of Lading

MANIFEST # **68008**
 GENERATOR Logos
 POINT OF ORIGIN Jic 0 3 E
 TRANSPORTER Kelley Oil Field
 DATE 01-13-21 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	BF	Cont Hydro vac soil			5	-	-	HV701	1415	<i>Aud</i>
-	BF	Washout By Kellogg			5	-	-	HV701	1415	<i>Aud</i>
					<u>10</u>					

RESULTS		LANDFARM EMPLOYEE <i>Gary Robinson</i> GWL	NOTES 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.
454	CHLORIDE TEST 1		
	CHLORIDE TEST		
PASS	PAINT FILTER TEST 1		

Generator Onsite Contact _____ Phone _____

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



BOL# 68008

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 01-13-21 TIME 1415

Attach test strip here

CUSTOMER Logos

SITE Jic 03E

DRIVER Arnold Johnson

SAMPLE Soil Straight With Dirt

CHLORIDE TEST 454 mg/Kg

ACCEPTED YES NO

PAINT FILTER TEST Time started 1415 Time completed 1426

PASS YES NO

SAMPLER/ANALYST Gary Robinson



H.O.F.



BOL# 68094

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 01-29-21

TIME 1630

Attach test strip here

CUSTOMER Logos

SITE Jic 03E

DRIVER Emm White

SAMPLE Soil Straight With Dirt

CHLORIDE TEST -299 mg/Kg

ACCEPTED YES NO

PAINT FILTER TEST Time started 1630 Time completed 1640

PASS YES NO

SAMPLER/ANALYST Gay Fapp





BOL# 68106

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 02-01-21 TIME 1520

Attach test strip here

CUSTOMER Logos

SITE Jic 95-

DRIVER Erin Durbin

SAMPLE Soil Straight With Dirt

CHLORIDE TEST -299 mg/Kg

ACCEPTED YES NO

PAINT FILTER TEST Time started 1520 Time completed 1532

PASS YES NO

SAMPLER/ANALYST Cory Robinson



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



BOL# 68709

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 2/2/21 TIME 755

Attach test strip here

CUSTOMER Logos

SITE Jicarilla 0 3E

DRIVER Emm Th...

SAMPLE Soil Straight With Dirt

CHLORIDE TEST 222 mg/Kg

ACCEPTED YES NO

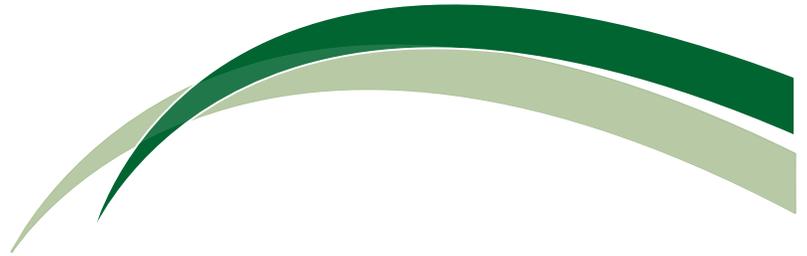
PAINT FILTER TEST Time started 7:55 Time completed 8:00

PASS YES NO

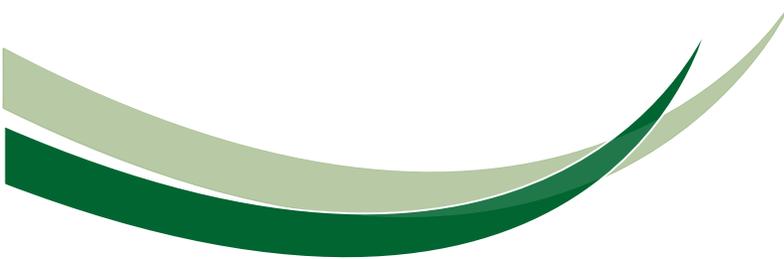
SAMPLER/ANALYST [Signature]



Appendix C



Field Notes with EPA 418.1 Field Screening Reports



Practical Solutions for a Better Tomorrow

CLIENT: <u>10905</u>	 <p>envirotech (508) 622-0015 (509) 862-1879 6788 U.S. Hwy 64, Farmington, NH 07401</p>	Envmtl. Spclst: <u>OC</u>
CLIENT/JOB #: <u>12039-0161</u>		C.O.C. No: _____
START DATE: <u>2/1/21</u>		LAT _____
FINISH DATE: _____		LONG _____
Page # _____ of _____		

Field Report: Spill Closure Verification

LOCATION:	Name: <u>Jicarilla</u> Well #: <u>3E</u> API: <u>30-043-21169</u>
	County: <u>Sandoval</u> State: <u>New Mexico</u>
Cause of Release: _____	Material Released: _____ Amt. Released: _____
QUAD/UNIT: <u>0</u>	SEC: <u>10</u> TWP: <u>22N</u> RNG: <u>3W</u> PM: _____
Spill Located Approximately: _____ FT.	FROM _____
Excavation Approx: _____ FT. X _____ FT. X _____ FT.	Cubic Yardage: _____
Disposal Facility: _____	
Land Use: _____	Land Owner: _____
REGULATORY AGENCY: _____	TPH CLOSURE STD: _____
ADDITIONAL CLOSURE REQUIREMENTS: _____	

FIELD 418.1 / PID ANALYSIS

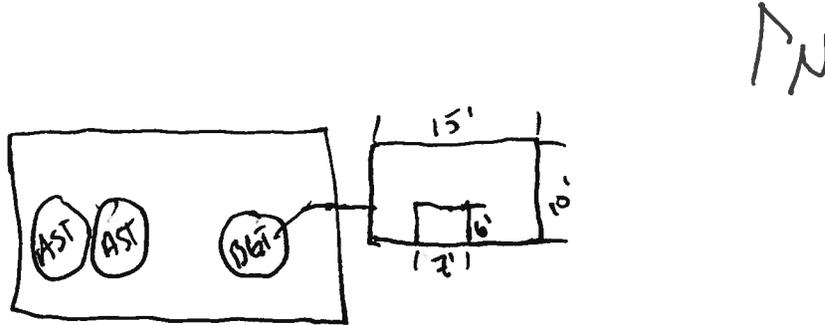
SAMPLE NAME	SAMPLE DESCRIPTION / NOTE	TIME	READING	CALC. ppm	PID/OV	TIME	LABORATORY ANALYSIS
<u>200 STD</u>		<u>11:57</u>	<u>196</u>				
<u>500 STD</u>		<u>11:58</u>	<u>453</u>				
<u>1250 STD</u>		<u>11:59</u>	<u>1263</u>				
<u>TOP shelf</u>		<u>12:02</u>	<u>950</u>	<u>340</u>	<u>6.7</u>	<u>12:19</u>	
<u>bottom shelf</u>		<u>12:04</u>	<u>192</u>	<u>192</u>	<u>0</u>	<u>12:19</u>	
<u>TOP shelf</u>		<u>13:13</u>	<u>29</u>	<u>116</u>	<u>0.0</u>	<u>13:31</u>	
<u>bottom shelf</u>		<u>13:15</u>	<u>3</u>	<u>128</u>	<u>0.05</u>	<u>13:32</u>	
<u>bottom shelf</u>		<u>14:03</u>	<u>24</u>	<u>96</u>	<u>0.05</u>	<u>14:22</u>	✓
<u>top shelf</u>	<u>SC-01</u>	<u>14:06</u>	<u>77</u>	<u>88</u>	<u>0.0</u>	<u>14:00</u>	✓

SC-02
SC-01

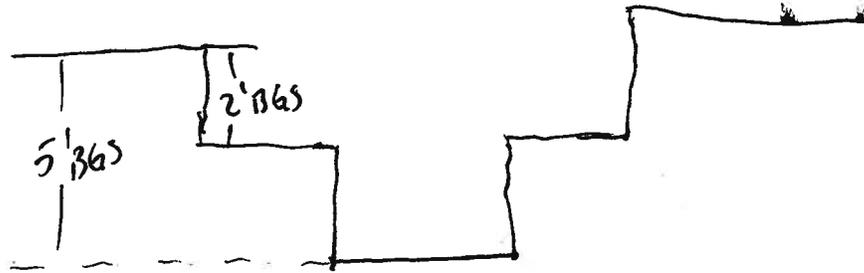
NOTES:

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

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



EXCAVATION PROFILE:



NOTES:

WO #:

Who Ordered/Site Rep:



**CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Cal. Date: 1-Feb-21

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	196
	200	
	500	
	1000	
	5000	

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

Brittany Hall for
Analyst

2/15/2021
Date

Damon Carter
Print Name

Review

2/15/2021
Date

Felipe Aragon, CES, CHMM
Print Name



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	1	Date Reported:	2/15/2021
Sample ID:	Top Shelf	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

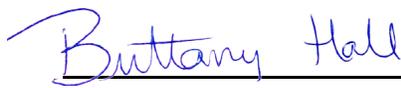
Total Petroleum Hydrocarbons	340	5.0
-------------------------------------	------------	------------

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 O 3E**

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

 for
 Analyst


 Review

Damon Carter
 Printed

Felipe Aragon, CES, CHMM
 Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	2	Date Reported:	2/15/2021
Sample ID:	Bottom Shelf	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	192	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 O 3E**

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

 for

 Analyst



 Review

Damon Carter

 Printed

Felipe Aragon, CES, CHMM

 Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	3	Date Reported:	2/15/2021
Sample ID:	Top Shelf 2	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	116	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 O 3E**

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

 for

 Analyst



 Review

Damon Carter

 Printed

Felipe Aragon, CES, CHMM

 Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	4	Date Reported:	2/15/2021
Sample ID:	Bottom Shelf 2	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	128	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 O 3E**

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

Buttany Hall

for

Analyst

Damon Carter

Printed

Felipe Aragon

Review

Felipe Aragon, CES, CHMM

Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	5	Date Reported:	2/15/2021
Sample ID:	SC-02 (bottom Shelf)	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	96	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 O 3E**

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


 _____ for
 Analyst



 Review

Damon Carter

 Printed

Felipe Aragon, CES, CHMM

 Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0161
Sample No.:	6	Date Reported:	2/15/2021
Sample ID:	SC-01 (top shelf)	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
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 O 3E**

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

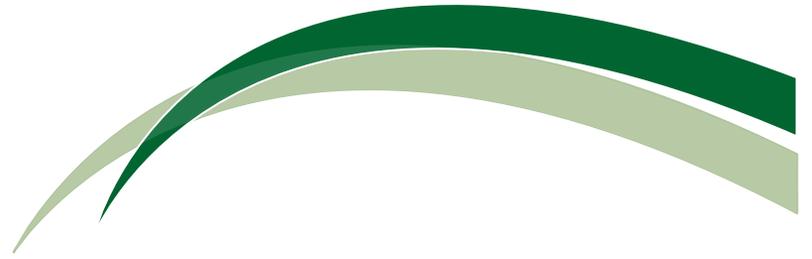
Buttany Hall for
Analyst

Felipe Aragon
Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

Appendix D



Laboratory Analytical Report



Practical Solutions for a Better Tomorrow

Report to:
Felipe Aragon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Logos Operating, LLC

Project Name: Jicarilla 03E Confirmation
Sampling

Work Order: E102004

Job Number: 12035-0161

Received: 2/2/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/9/21

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 2/9/21

Felipe Aragon
2010 Afton Place
Farmington, NM 87401



Project Name: Jicarilla 03E Confirmation Sampling
Workorder: E102004
Date Received: 2/2/2021 9:07:00AM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2021 9:07:00AM, under the Project Name: Jicarilla 03E Confirmation Sampling.

The analytical test results summarized in this report with the Project Name: Jicarilla 03E 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 regarding 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

Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.	12

Sample Summary

Logos Operating, LLC 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 02/09/21 12:22
------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-01	E102004-01A	Soil	02/01/21	02/02/21	Glass Jar, 4 oz.
	E102004-01B	Soil	02/01/21	02/02/21	Glass Jar, 4 oz.
SC-02	E102004-02A	Soil	02/01/21	02/02/21	Glass Jar, 4 oz.
	E102004-02B	Soil	02/01/21	02/02/21	Glass Jar, 4 oz.



Sample Data

Logos Operating, LLC 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 2/9/2021 12:22:31PM
------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	-----------------------------------------

SC-01

E102004-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	-----------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2106027
Benzene	ND	0.0250	1	02/04/21	02/05/21
Toluene	ND	0.0250	1	02/04/21	02/05/21
Ethylbenzene	ND	0.0250	1	02/04/21	02/05/21
p,m-Xylene	ND	0.0500	1	02/04/21	02/05/21
o-Xylene	ND	0.0250	1	02/04/21	02/05/21
Total Xylenes	ND	0.0250	1	02/04/21	02/05/21

<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		02/04/21	02/05/21
<i>Surrogate: Toluene-d8</i>	97.7 %	70-130		02/04/21	02/05/21
<i>Surrogate: Bromofluorobenzene</i>	96.6 %	70-130		02/04/21	02/05/21

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/21	02/05/21
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		02/04/21	02/05/21
<i>Surrogate: Toluene-d8</i>	97.7 %	70-130		02/04/21	02/05/21
<i>Surrogate: Bromofluorobenzene</i>	96.6 %	70-130		02/04/21	02/05/21

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2107002
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/21	02/08/21
Oil Range Organics (C28-C35)	ND	50.0	1	02/08/21	02/08/21
<i>Surrogate: n-Nonane</i>	85.1 %	50-200		02/08/21	02/08/21

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2106029
Chloride	68.3	20.0	1	02/04/21	02/04/21



Sample Data

Logos Operating, LLC 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 2/9/2021 12:22:31PM
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SC-02

E102004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2106027
Benzene	ND	0.0250	1	02/04/21	02/05/21	
Toluene	ND	0.0250	1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250	1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500	1	02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	02/04/21	02/05/21	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	02/04/21	02/05/21	
<i>Surrogate: Toluene-d8</i>		96.8 %	70-130	02/04/21	02/05/21	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/21	02/05/21	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	02/04/21	02/05/21	
<i>Surrogate: Toluene-d8</i>		96.8 %	70-130	02/04/21	02/05/21	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2107002
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/21	02/08/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/08/21	02/08/21	
<i>Surrogate: n-Nonane</i>		86.6 %	50-200	02/08/21	02/08/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2106029
Chloride	46.8	20.0	1	02/04/21	02/04/21	



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 03E Confirmation Sampling	Reported:
2010 Afton Place	Project Number:	12035-0161	
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/9/2021 12:22:31PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg					

Blank (2106027-BLK1)

Prepared: 02/04/21 Analyzed: 02/04/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			

LCS (2106027-BS1)

Prepared: 02/04/21 Analyzed: 02/04/21

Benzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.50	0.0250	2.50		100	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.1	70-130			
p,m-Xylene	4.69	0.0500	5.00		93.9	70-130			
o-Xylene	2.36	0.0250	2.50		94.4	70-130			
Total Xylenes	7.05	0.0250	7.50		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			
Surrogate: Bromofluorobenzene	0.450		0.500		89.9	70-130			

Matrix Spike (2106027-MS1)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Benzene	2.51	0.0250	2.50	ND	101	48-131			
Toluene	2.53	0.0250	2.50	ND	101	48-130			
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135			
p,m-Xylene	4.81	0.0500	5.00	ND	96.1	43-135			
o-Xylene	2.42	0.0250	2.50	ND	96.8	43-135			
Total Xylenes	7.23	0.0250	7.50	ND	96.4	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.546		0.500		109	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			
Surrogate: Bromofluorobenzene	0.696		0.500		139	70-130			S3

Matrix Spike Dup (2106027-MSD1)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Benzene	2.36	0.0250	2.50	ND	94.6	48-131	6.11	23	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	3.96	24	
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135	2.89	27	
p,m-Xylene	4.67	0.0500	5.00	ND	93.3	43-135	2.99	27	
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135	2.53	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	2.83	27	
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.782		0.500		156	70-130			S3



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 03E Confirmation Sampling	Reported: 2/9/2021 12:22:31PM
2010 Afton Place	Project Number:	12035-0161	
Farmington NM, 87401	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2106027-BLK1)

Prepared: 02/04/21 Analyzed: 02/04/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			

LCS (2106027-BS2)

Prepared: 02/04/21 Analyzed: 02/04/21

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
Surrogate: Bromofluorobenzene	0.447		0.500		89.3	70-130			

Matrix Spike (2106027-MS2)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Gasoline Range Organics (C6-C10)	91.7	20.0	50.0	46.1	91.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.702		0.500		140	70-130			S3

Matrix Spike Dup (2106027-MSD2)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Gasoline Range Organics (C6-C10)	104	20.0	50.0	46.1	115	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.868		0.500		174	70-130			S3



QC Summary Data

Logos Operating, LLC 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 2/9/2021 12:22:31PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2107002-BLK1)

Prepared: 02/08/21 Analyzed: 02/08/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.8		50.0		95.6	50-200			

LCS (2107002-BS1)

Prepared: 02/08/21 Analyzed: 02/08/21

Diesel Range Organics (C10-C28)	451	25.0	500		90.1	38-132			
Surrogate: <i>n</i> -Nonane	39.8		50.0		79.6	50-200			

Matrix Spike (2107002-MS1)

Source: E102004-02 Prepared: 02/08/21 Analyzed: 02/08/21

Diesel Range Organics (C10-C28)	511	25.0	500	ND	102	38-132			
Surrogate: <i>n</i> -Nonane	39.1		50.0		78.2	50-200			

Matrix Spike Dup (2107002-MSD1)

Source: E102004-02 Prepared: 02/08/21 Analyzed: 02/08/21

Diesel Range Organics (C10-C28)	494	25.0	500	ND	98.9	38-132	3.29	20	
Surrogate: <i>n</i> -Nonane	39.7		50.0		79.4	50-200			



QC Summary Data

Logos Operating, LLC 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 2/9/2021 12:22:31PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2106029-BLK1)

Prepared: 02/04/21 Analyzed: 02/04/21

Chloride ND 20.0

LCS (2106029-BS1)

Prepared: 02/04/21 Analyzed: 02/04/21

Chloride 249 20.0 250 99.7 90-110

Matrix Spike (2106029-MS1)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Chloride 253 20.0 250 ND 101 80-120

Matrix Spike Dup (2106029-MSD1)

Source: E102007-01 Prepared: 02/04/21 Analyzed: 02/04/21

Chloride 254 20.0 250 ND 101 80-120 0.158 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 2010 Afton Place Farmington NM, 87401	Project Name: Jicarilla 03E Confirmation Sampling Project Number: 12035-0161 Project Manager: Felipe Aragon	Reported: 02/09/21 12:22
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S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

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.



Envirotech Analytical Laboratory

Printed: 2/2/2021 3:29:06PM

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: 02/02/21 09:07	Work Order ID: E102004
Phone: (505)215-8215	Date Logged In: 02/02/21 15:19	Logged In By: Alexa Michaels
Email:	Due Date: 02/09/21 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Damon Carter

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 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 filtration 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

Comments/Resolution

Email- Felipe, Greg, Damon, Tami, Brittany, Clay, Isaac

Client Instruction

Email- Felipe, Greg, Damon, Tami, Brittany, Clay, Isaac

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

Date



envirotech Inc.

Project Information

Chain of Custody

Client: Logos
 Project: Jicarilla O3E Confirmation Sampling
 Project Manager: F.Aragon
 Address:
 City, State, Zip
 Email: Gcrabtree Dcarter Faragon Tknight Bhall
 Cgreen Igarcia

Report Attention
 Report due by:
 Email:
 Address:
 City, State, Zip
 Phone:

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
E 102004	Pending					

Analysis and Method										State			
										NM	CO	UT	AZ
										X			

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	8015	ORO	8021	U										Remarks
14:01	2/1/2020	S	2	Top Shelf AC 2/1/20 SC-01	1	X	X	X	X										Cool
14:03	2/1/2020	S	2	Bottom Shelf AC 2/1/20 SC-02	2	X	X	X	X										Cool

Additional Instructions:

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

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.

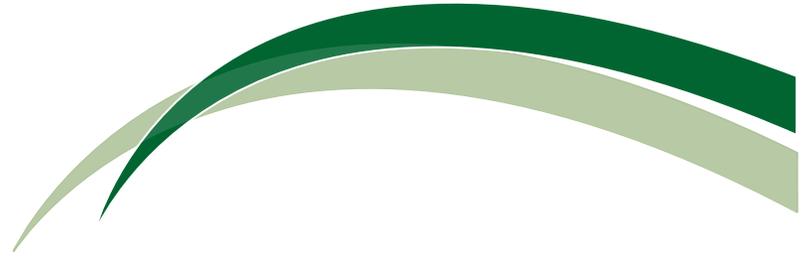
Relinquished by: (Signature) <i>Damon Carter</i>	Date 2/1/21	Time 9:05	Received by: (Signature) <i>[Signature]</i>	Date 2/2/21	Time 9:07	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

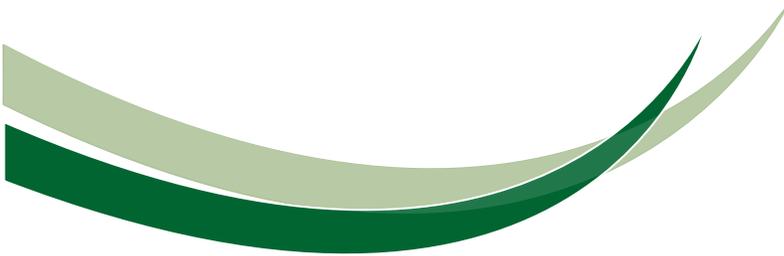
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this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



Appendix E



Site Photography



Practical Solutions for a Better Tomorrow

Office: 505-787-2218

mflorez@logoesresourcesllc.com



**Site Photography
LOGOS Operating, LLC
Jicarilla O 003E Well Site**



Site Area



**Site Area: Spill
January 12, 2021**

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla O 3E Well Site
Sandoval County, New Mexico
Project #12053-0161
February 2021

February 1, 2021



Picture 1: Excavation Activities (View 1)



Picture 2: Excavation Activities (View 2)

**Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla O 3E Well Site
Sandoval County, New Mexico
Project #12053-0161
February 2021**

February 2, 2021



Picture 3: View of Backfilled Area

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 32537

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 32537
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/21/2022