

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	NRM2023249231
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: LOGOS Operating, LLC	OGRID: 289408
Contact Name: Tamra Sessions	Contact Telephone: 505-324-4145
Contact email: tsessions@logosresourcesllc.com	Incident # (assigned by OCD)
Contact mailing address: 2010 Afton Place, Farmington, NM 87401	

### Location of Release Source

Latitude 36.35393

Longitude -107.30563

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla 35 8	Site Type: Well
Date Release Discovered: 8/4/2020	API# (if applicable): 30-039-22096

Unit Letter	Section	Township	Range	County
I	36	25N	5W	Rio Arriba

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 4bbls	Volume Recovered (bbls): 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): combined with oil	Volume Recovered (bbls): 0
	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:

Rupture disc on separator failed causing produced oil and water to spray covering an area approximately 10' x 20' and a trail of mixed oil/water running approximately 60' off separator pad. LOGOS plans to clean up the stained area and remove soil and brush. Jicarilla requested LOGOS to remove the separator to clean historic staining under and around the separator.


State of New Mexico  
Oil Conservation Division

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

## 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>Tamra Sessions</u>	Title: <u>Regulatory Specialist</u>
Signature: <u></u>	Date: <u>2/18/21</u>
email: <u>tsessions@logosresourcesllc.com</u>	Telephone: <u>505-324-4145</u>
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b><u>OCD Only</u></b>           Received by: _____ Date: _____       </div>	

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

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

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


- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-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: Tamra Sessions Title: Regulatory Specialist  
Signature:  Date: 2/18/21  
email: tsessions@logosresourcesllc.com Telephone: 505-324-4145

**OCD Only**

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

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## 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: Tamra Sessions Title: Regulatory Specialist  
Signature:  Date: 2/18/21  
email: tsessions@logosresourcesllc.com Telephone: 505-324-4145

**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: 06/01/2022  
Printed Name: Nelson Velez Title: Environmental Specialist – Adv



February 17, 2021

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

Incident # NRM2023249231

**Well Name: Jicarilla 35 8 Located in Section 36, Township 25 North, Range 5 West, Rio Arriba, New Mexico.**

**RE: Rupture disc on separator failed causing produced oil and water to spray covering an area approximately 10' x 20' and a trail of mixed oil/water running approximately 60' off separator pad. The release estimated at 4bbls of mixed produced oil and water. LOGOS plans to clean up the stained area and remove soil and brush. Jicarilla requested LOGOS to remove the separator to clean historic staining under and around the separator.**

Dear Mr. Smith,

On August 4, 2020, operator arrived on location around 11am and found fluid spraying and leaking from separator. Well was shut in. LOGOS picked up oil-soaked soil and raked in oil sponge. Separator was repaired. The surface owner (Jicarilla) was notified on August 5, 2020 of the release.

On August 7, 2020 Keith Manwell (JIC EPO) requested to do further remediation. On August 11 & 12, 2020 LOGOS had Kelley Oilfield Services, remove contaminated soil from the trail and contaminated brush around the separator, an approximate area of 10'x20' and 6-12" deep, and hauled and disposed 15 yards to the Envirotech landfarm.

Keith Manwell was onsite for all remediation and sampling.

On August 19, 2020 Kelley Oilfield Services removed the separator per Keith Manwell's request for LOGOS to clean historic staining. Kelley Services dug and hauled off 12 yards to the Envirotech landfarm. LOGOS collected grab samples on August 24, 2020 from SB1 and SB2, placed into Ziploc bags, mixed, and added into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech for testing, samples did not pass.

On September 28, 2020, LOGOS had Kelley Oilfield Services continue to remove contaminated soil from the trail, an approximate 60'x2' and 2' deep. And from below where the separator had sat, an approximate 6'x9' and 4.5' deep. Kelley's hauled an additional 20 yards to the Envirotech landfarm. LOGOS notified and scheduled a composite grab sample with Keith Manwell (Jicarilla). LOGOS was unaware to notify OCD at the time for confirmation sample per results received on October 5<sup>th</sup>, due to staff change. Keith Manwell was onsite for all confirmation samplings with Envirotech. Two 5-point



composite samples were collected, as documented in the enclosed Aerial Site map. The one 5-point sample from the trail (Lab #1) passed but the second 5-point sample from the separator (Lab #2) did not pass.

On October 14, 2020 Kelley Oilfield Services dug an additional foot of contaminated soil from the separator area, an approximate 6'x9' and 5.5' deep. Kelley's hauled and disposed 3 more yards to the Envirotech landfarm, for a total of 50 yards. Jicarilla and OCD were notified and scheduled on October 14, 2020 for the 2nd confirmation sample in the separator area. Envirotech then performed the confirmation sampling. One 5-point composite sample was collected, as documented in the enclosed Aerial Site map, and Figure 1 – Site pictures. The sample testing report was received on 10/21/20, the sample passed.

The samples were analyzed for TPH as gasoline diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

Final Sample Results								
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)
19.15.29.13 (D) NMAC			100 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg					20,000 mg/kg
			2500 mg/kg					
Separator Pad	10/21/20	Remediated	ND	ND	ND	ND	ND	34.8
Trail	10/5/20	Remediated	ND	52.4	ND	ND	ND	ND

The groundwater data is documented in the enclosed TOPO Site Map. The Jicarilla 35 8 has GW @ >100' with an elevation of 6921' according to the 1997 Rationale for Risk Based Closure Hazard Ranking Score of 00.

Therefore, based on the composite grab sample and confirmation sample activities and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required, and LOGOS request a release and remediation/reclamation closure approval from NMOCD.

Sincerely,



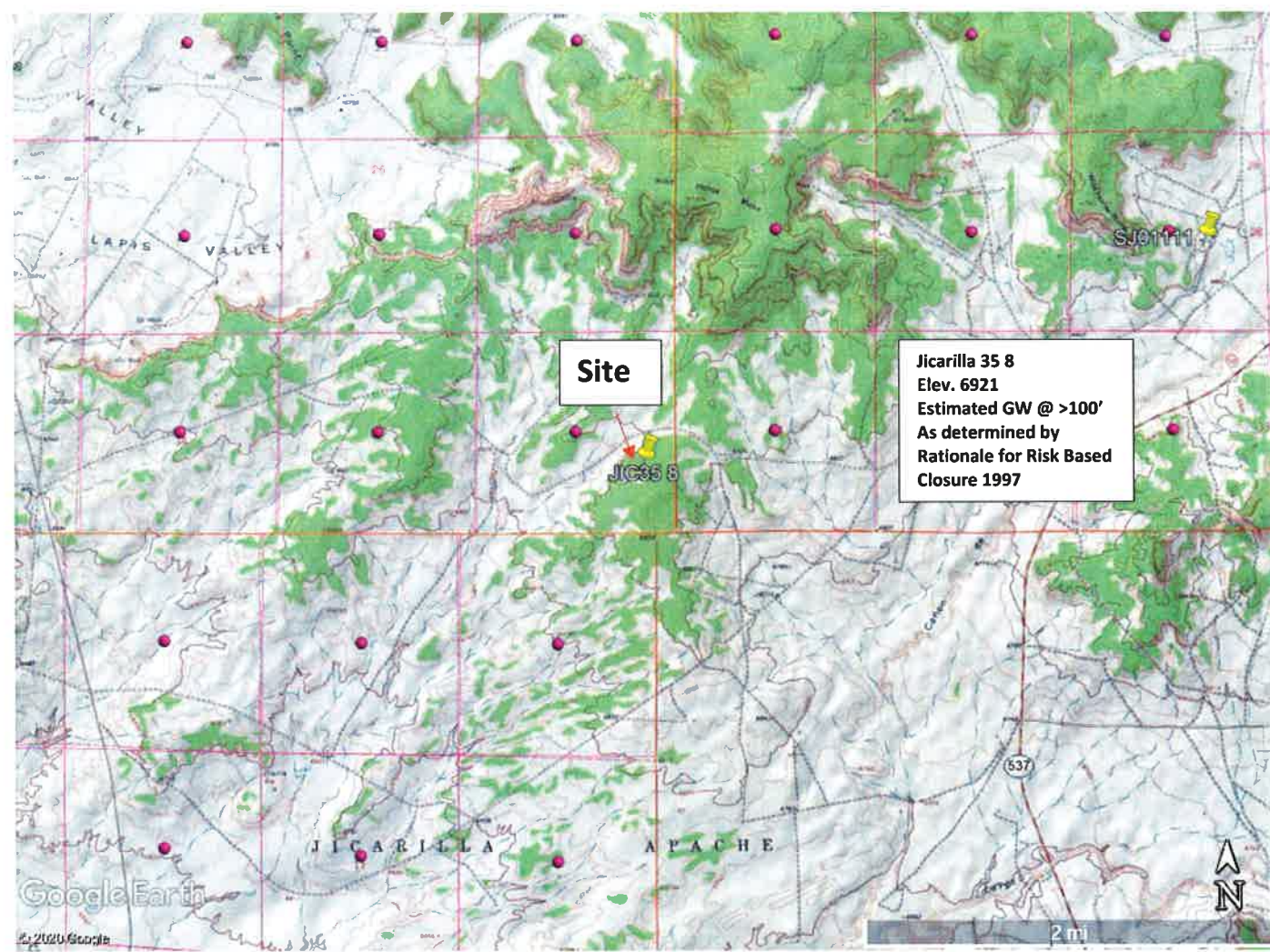
Tamra Sessions

Regulatory Specialist

Office: 505-324-4145

[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)







**Well Name: Jicarilla 35 8**  
**API: 30-039-22096**  
**Section: 36 Township: 25N Range: 5W Unit: I**  
**Lat: 36.35393 Long: -107.30563 NAD 83**

**Scale** 

**TOPO Site Map**  
**11/01/2020**





# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">SJ 01111</a>	SJ	RA		2	1	4	28	25N	04W	297735	4027347*	4913	1225		
<a href="#">SJ 01111 S</a>	SJ	RA		2	1	4	28	25N	04W	297735	4027347*	4913	587		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 293115.7

Northing (Y): 4025673.21

Radius: 5000

\*UTM location was derived from PLSS - see Help

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

2/17/21 4:20 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

*Kenney L. Frost*  
DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

*Approved*

Meter Number: 93316  
Location Name: Jicarilla 35 #8  
Location: TN-25 RG-05  
SC-36 UL-I  
6 - Jicarilla  
NMOCD Zone: OUTSIDE  
Hazard Ranking Score: 00

### RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

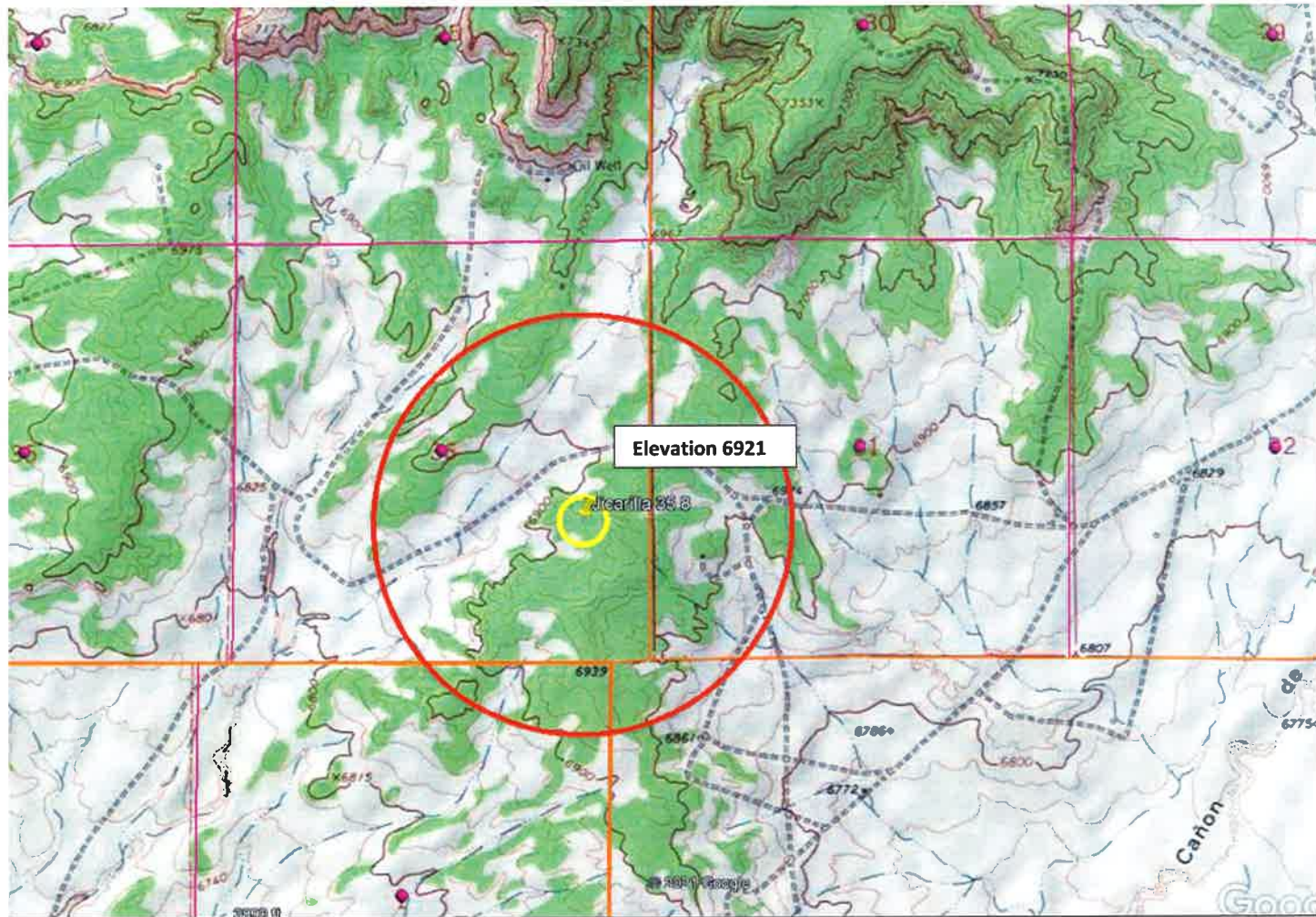
In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone	$10^{-9}$ to $10^{-13}$ cm/sec
Shale	$10^{-12}$ to $10^{-16}$ cm/sec
Clay	$10^{-12}$ to $10^{-15}$ cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



○ 1/2 mile radius

○ 300' radius



**Well Name: Jicarilla 35 8**

**API: 30-039-22096**

**Section: 36 Township: 25N Range: 5W Unit: I**

**Lat: 36.35393 Long: -107.30563 NAD 83**

**Hydrology Map**

**11/01/2020**





Soil Grab Sampling



Well Name: Jicarilla 35 8

API: 30-039-22096

Section: 36 Township: 25N Range: 5W Unit: I

Lat: 36.35393 Long: -107.30563 NAD 83

Scale



Aerial Site Map

11/01/2020



## Field Notes for Spill Closure

Well Name: Jicarilla 35 8

Date of Arrival: 10/14/2020

### Observe Area

Removed contaminated soils ☒ Yes ☐ No

What chemical was used to clean-up contaminated area:

NONE

Take Picture: ☒ Before ☒ After

Entire Spill Containment: ☒ Dry ☐ Wet

If wet:  
Rain, Moist, etc...

### Site Delineation

☒

#### **Sample 1:**

Composite (Grab Sample) ☒ Yes ☐ No

Was (2) five-point sample taken: ☒ Yes ☐ No

☐

#### **Sample 2:**

Delineation (Hand Auger) ☐ Yes ☐ No

Depths SB - 1 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 2 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 3 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 4 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

### Soil

Did soil have odor: ☐ Yes ☒ No

If so, what kind of odor:

Was soil discolored: ☐ Yes ☒ No

If so, what color:

Was the soil sandy: ☐ Yes ☒ No

## Tamra Sessions

---

**From:** Tamra Sessions  
**Sent:** Thursday, September 24, 2020 12:56 PM  
**To:** cltecube@yahoo.com (Cordell Tecube-EPO); Hobson Sandoval (hsandoval\_99@yahoo.com); Jay Paul McWilliams; Keith Manwell-JIC EPO (kcmanwell@yahoo.com); Kurt Sandoval (kurt.sandoval@bia.gov); Marlena Martinez (marlena.martinez@bia.gov); orsonharrison@jicarillaoga.com; Vicenti, Deedra (deedra.vicenti@bia.gov); Jason Sandoval (jasonsandoval@jicarillaoga.com)  
**Cc:** Bryan Lovato; Billy Schaaphok; Jason Meechan; Marie Florez; Marcia Brueggenjohann  
**Subject:** RE: Jicarilla 35 8\_Separator Failure\_08.04.20

Keith and Orson per our conversation today, sampling from 8/24/20 came back above reclamation levels. LOGOS will be on location Monday, September 28, 2020, to remove additional soil and will take confirmation samples.

Tamra

**From:** Tamra Sessions  
**Sent:** Thursday, August 13, 2020 1:12 PM  
**To:** cltecube@yahoo.com (Cordell Tecube-EPO) <cltecube@yahoo.com>; Hobson Sandoval (hsandoval\_99@yahoo.com) <hsandoval\_99@yahoo.com>; Jay McWilliams <jmcwilliams@logosresourcesllc.com>; Keith Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>; Kurt Sandoval (kurt.sandoval@bia.gov) <kurt.sandoval@bia.gov>; Marlena Martinez (marlena.martinez@bia.gov) <marlena.martinez@bia.gov>; orsonharrison@jicarillaoga.com; Vicenti, Deedra (deedra.vicenti@bia.gov) <deedra.vicenti@bia.gov>; Jason Sandoval (jasonsandoval@jicarillaoga.com) <jasonsandoval@jicarillaoga.com>  
**Cc:** Bryan Lovato <blovato@logosresourcesllc.com>; Billy Schaaphok <bschaaphok@logosresourcesllc.com>; Jason Meechan <jmeechan@logosresourcesllc.com>; Marie Florez <mflorez@logosresourcesllc.com>; Marcia Brueggenjohann <MBrueggenjohann@logosresourcesllc.com>  
**Subject:** RE: Jicarilla 35 8\_Separator Failure\_08.04.20

Orson and Keith, per phone conversation LOGOS has removed oil soaked dirt from the 60' trail leading off from the separator and oil/produced water sprayed brush. This has been hauled to an approved landfarm. LOGOS next will be removing the contaminated soil from the separator area, approximately 10' x 20'. Keith will look for replacement dirt to be spread after sample results come back clean. We will keep you informed on when sampling will occur.

Tamra

**From:** Tamra Sessions  
**Sent:** Friday, August 07, 2020 11:15 AM  
**To:** [cltecube@yahoo.com](mailto:cltecube@yahoo.com) (Cordell Tecube-EPO) <[cltecube@yahoo.com](mailto:cltecube@yahoo.com)>; Hobson Sandoval ([hsandoval\\_99@yahoo.com](mailto:hsandoval_99@yahoo.com)) <[hsandoval\\_99@yahoo.com](mailto:hsandoval_99@yahoo.com)>; Jay McWilliams <[jmcwilliams@logosresourcesllc.com](mailto:jmcwilliams@logosresourcesllc.com)>; Keith Manwell-JIC EPO ([kcmanwell@yahoo.com](mailto:kcmanwell@yahoo.com)) <[kcmanwell@yahoo.com](mailto:kcmanwell@yahoo.com)>; Kurt Sandoval ([kurt.sandoval@bia.gov](mailto:kurt.sandoval@bia.gov)) <[kurt.sandoval@bia.gov](mailto:kurt.sandoval@bia.gov)>; Marlena Martinez ([marlena.martinez@bia.gov](mailto:marlena.martinez@bia.gov)) <[marlena.martinez@bia.gov](mailto:marlena.martinez@bia.gov)>; orsonharrison@jicarillaoga.com; Vicenti, Deedra ([deedra.vicenti@bia.gov](mailto:deedra.vicenti@bia.gov)) <[deedra.vicenti@bia.gov](mailto:deedra.vicenti@bia.gov)>; Jason Sandoval ([jasonsandoval@jicarillaoga.com](mailto:jasonsandoval@jicarillaoga.com)) <[jasonsandoval@jicarillaoga.com](mailto:jasonsandoval@jicarillaoga.com)>  
**Cc:** Bryan Lovato <[blovato@logosresourcesllc.com](mailto:blovato@logosresourcesllc.com)>; Billy Schaaphok <[bschaaphok@logosresourcesllc.com](mailto:bschaaphok@logosresourcesllc.com)>; Jason Meechan <[jmeechan@logosresourcesllc.com](mailto:jmeechan@logosresourcesllc.com)>; Marie Florez <[mflorez@logosresourcesllc.com](mailto:mflorez@logosresourcesllc.com)>  
**Subject:** RE: Jicarilla 35 8\_Separator Failure\_08.04.20

Orson and Keith, per phone conversation LOGOS will finish cleaning up on this location next week then plan on taking samples. Plan forward will be contingent on the sample results from Envirotech. Will notify prior to sampling.

Followed up with BIA for permission to perform work for this clean up.

Tamra

**From:** Tamra Sessions

**Sent:** Wednesday, August 05, 2020 3:48 PM

**To:** [cltecube@yahoo.com](mailto:cltecube@yahoo.com) (Cordell Tecube-EPO) <[cltecube@yahoo.com](mailto:cltecube@yahoo.com)>; Hobson Sandoval ([hsandoval\\_99@yahoo.com](mailto:hsandoval_99@yahoo.com)) <[hsandoval\\_99@yahoo.com](mailto:hsandoval_99@yahoo.com)>; Jared Benally ([jaredbenally@jicarillaoga.com](mailto:jaredbenally@jicarillaoga.com)) <[jaredbenally@jicarillaoga.com](mailto:jaredbenally@jicarillaoga.com)>; Jay McWilliams <[jmcwilliams@logosresourcesllc.com](mailto:jmcwilliams@logosresourcesllc.com)>; Keith Manwell-JIC EPO ([kcmanwell@yahoo.com](mailto:kcmanwell@yahoo.com)) <[kcmanwell@yahoo.com](mailto:kcmanwell@yahoo.com)>; Kurt Sandoval ([kurt.sandoval@bia.gov](mailto:kurt.sandoval@bia.gov)) <[kurt.sandoval@bia.gov](mailto:kurt.sandoval@bia.gov)>; Marlena Martinez ([marlena.martinez@bia.gov](mailto:marlena.martinez@bia.gov)) <[marlena.martinez@bia.gov](mailto:marlena.martinez@bia.gov)>; orsonharrison@jicarillaoga.com; Vicenti, Deedra ([deedra.vicenti@bia.gov](mailto:deedra.vicenti@bia.gov)) <[deedra.vicenti@bia.gov](mailto:deedra.vicenti@bia.gov)>

**Cc:** Bryan Lovato <[blovato@logosresourcesllc.com](mailto:blovato@logosresourcesllc.com)>; Billy Schaaphok <[bschaaphok@logosresourcesllc.com](mailto:bschaaphok@logosresourcesllc.com)>; Jason Meechan <[jmeechan@logosresourcesllc.com](mailto:jmeechan@logosresourcesllc.com)>; Marie Florez <[mflorez@logosresourcesllc.com](mailto:mflorez@logosresourcesllc.com)>

**Subject:** Jicarilla 35 8\_Separator Failure\_08.04.20

Well Name: JICARILLA 35 8

Lease #JIC35

API #30-039-22096

UL I, SEC36, T25N, R05W

36.35393,-107.30563 NAD83

Operator arrived on location 8/4/20 around 11am and found fluid spraying and leaking from separator. Rupture disc on separator failed. The area that was affected was 20' around the separator and approximately 60' past the separator. It had made a trail of oil going down off location. Estimated at approximately ½ bbl of oil. Picked up oil soaked soil and raked in oil sponge. Separator was repaired.

## Tamra Sessions

---

**From:** Tamra Sessions  
**Sent:** Friday, October 09, 2020 1:41 PM  
**To:** Cory Smith (cory.smith@state.nm.us); 'Powell, Brandon, EMNRD'; Keith Manwell-JIC EPO (kcmanwell@yahoo.com); Jason Sandoval (jasonsandoval@jicarillaoga.com); orsonharrison@jicarillaoga.com  
**Cc:** Marie Florez; Bryan Lovato; Jason Meechan  
**Subject:** RE: Jicarilla 35 8 - Notification for final sampling

The samples pulled on 8/24/20, were not the Final as they came back high. Further excavation has taken place.

LOGOS is notifying OCD and Jicarilla two business days prior to conducting final sampling on the following well.

Date: October 14, 2020 (Wednesday)  
 Time: 11:00am

Incident # NRM2023249231

API: 30-039-22096  
 Well Name: Jicarilla 35 8  
 Section:36  
 Township:25N  
 Range: 5W  
 Unit Letter: I

Tamra

**From:** Tamra Sessions  
**Sent:** Thursday, August 20, 2020 8:45 AM  
**To:** Cory Smith (cory.smith@state.nm.us) <cory.smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Keith Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>; Jason Sandoval (jasonsandoval@jicarillaoga.com) <jasonsandoval@jicarillaoga.com>; orsonharrison@jicarillaoga.com  
**Cc:** Billy Schaaphok <bschaaphok@logosresourcesllc.com>; Marie Florez <mflorez@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>  
**Subject:** Jicarilla 35 8 - Notification for final sampling

LOGOS is notifying OCD and Jicarilla two business days prior to conducting final sampling on the following well.

Date: August 24, 2020 (Monday)  
 Time: 10:00am

Incident # NRM2023249231

API: 30-039-22096  
 Well Name: Jicarilla 35 8  
 Section:36  
 Township:25N  
 Range: 5W  
 Unit Letter: I

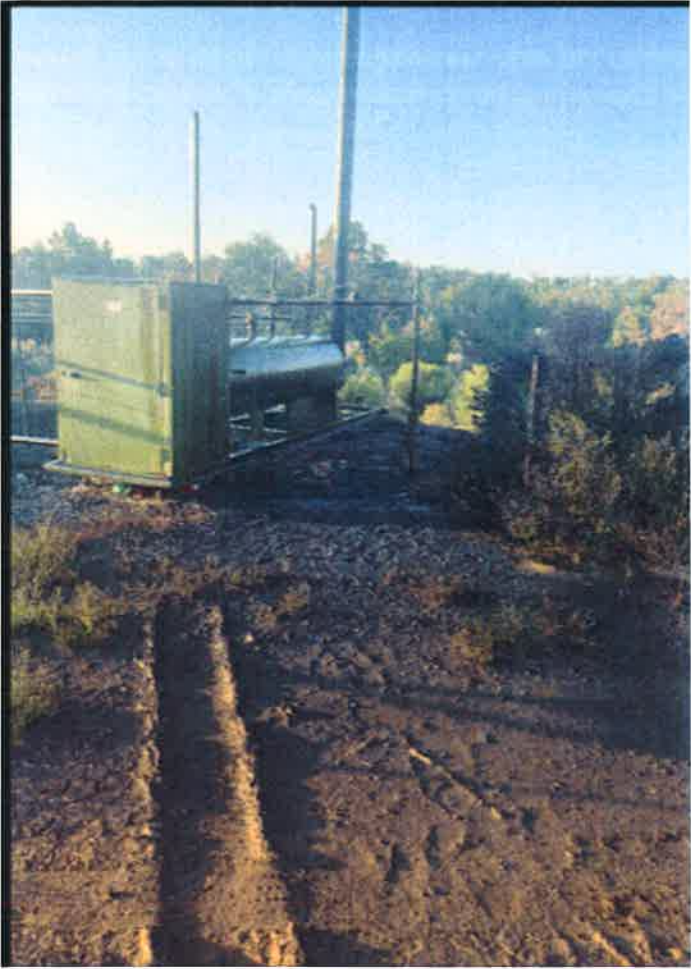


Tamra Sessions  
Regulatory Specialist  
Office 505-324-4145  
[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)



JICARILLA 35 8 – 08/4/20 SITE AREA SPILL







Tamra Sessions  
Regulatory Specialist  
Office 505-324-4145  
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JICARILLA 35 8 – SITE AREA REMEDIATING



JICARILLA 35 8 – SITE AREA BACKFILLED





Report to:  
Felipe Aragon  
PO Box 18  
Flora Vista, NM 87415



5796 U.S. Hwy 64  
Farmington, NM 87401  
Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Logos Operating, LLC

Project Name: Jicarilla 35-8 Soil Sampling  
Work Order: P009104  
Job Number: 12035-0156  
Received: 9/28/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/5/20

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: 10/5/20

Felipe Aragon  
PO Box 18  
Flora Vista, NM 87415



Project Name: Jicarilla 35-8 Soil Sampling  
Workorder: P009104  
Date Received: 9/28/2020 5:07:00PM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/28/2020 5:07:00PM, under the Project Name: Jicarilla 35-8 Soil Sampling.

The analytical test results summarized in this report with the Project Name: Jicarilla 35-8 Soil 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](mailto:whinchman@envirotech-inc.com)

**Raina Lopez**  
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Office: 505-632-1881  
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**Alexa Michaels**  
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Office: 505-632-1881  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
North end of path	5
Separator Excavation Base	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/05/20 09:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North end of path	P009104-01A	Soil	09/28/20	09/28/20	Glass Jar, 4 oz.
	P009104-01B	Soil	09/28/20	09/28/20	Glass Jar, 4 oz.
Separator Excavation Base	P009104-02A	Soil	09/28/20	09/28/20	Glass Jar, 4 oz.
	P009104-02B	Soil	09/28/20	09/28/20	Glass Jar, 4 oz.

## Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	<b>Reported:</b> 10/5/2020 9:39:49AM
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	

### North end of path

**P009104-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RS		Batch: 2040021
Benzene	ND	0.0250	1	10/01/20	10/01/20	
Toluene	ND	0.0250	1	10/01/20	10/01/20	
Ethylbenzene	ND	0.0250	1	10/01/20	10/01/20	
p,m-Xylene	ND	0.0500	1	10/01/20	10/01/20	
o-Xylene	ND	0.0250	1	10/01/20	10/01/20	
Total Xylenes	ND	0.0250	1	10/01/20	10/01/20	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	10/01/20	10/01/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RS		Batch: 2040021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/20	10/01/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	10/01/20	10/01/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2040020
Diesel Range Organics (C10-C28)	52.4	25.0	1	10/01/20	10/01/20	
Oil Range Organics (C28-C40)	ND	50.0	1	10/01/20	10/01/20	
Surrogate: n-Nonane		87.7 %	50-200	10/01/20	10/01/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: NE		Batch: 2040025
Chloride	ND	20.0	1	10/01/20	10/01/20	



## Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	
PO Box 18	Project Number:	12035-0156	<b>Reported:</b>
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/5/2020 9:39:49AM

### Separator Excavation Base

P009104-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RS		Batch: 2040021
Benzene	ND	0.0250		10/01/20	10/01/20	
Toluene	ND	0.0250		10/01/20	10/01/20	
Ethylbenzene	ND	0.0250		10/01/20	10/01/20	
p,m-Xylene	ND	0.0500		10/01/20	10/01/20	
o-Xylene	ND	0.0250		10/01/20	10/01/20	
Total Xylenes	ND	0.0250		10/01/20	10/01/20	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		10/01/20	10/01/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RS		Batch: 2040021
Gasoline Range Organics (C6-C10)	ND	20.0		10/01/20	10/01/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	70-130		10/01/20	10/01/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2040020
Diesel Range Organics (C10-C28)	103	25.0		10/01/20	10/01/20	
Oil Range Organics (C28-C40)	109	50.0		10/01/20	10/01/20	
Surrogate: n-Nonane	110 %	50-200		10/01/20	10/01/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: NE		Batch: 2040025
Chloride	125	20.0		10/01/20	10/01/20	





## QC Summary Data

Logos Operating, LLC  
PO Box 18  
Flora Vista NM, 87415

Project Name: Jicarilla 35-8 Soil Sampling  
Project Number: 12035-0156  
Project Manager: Felipe Aragon

Reported:

10/5/2020 9:39:49AM

### Volatile Organics by EPA 8021B

Analyst: RS

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 (2040021-BLK1)

Prepared: 10/01/20 Analyzed: 10/01/20

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: 4-Bromochlorobenzene-PID 8.00 8.00 100 70-130

#### LCS (2040021-BS1)

Prepared: 10/01/20 Analyzed: 10/01/20

Benzene	5.43	0.0250	5.00	109	70-130
Toluene	5.51	0.0250	5.00	110	70-130
Ethylbenzene	5.49	0.0250	5.00	110	70-130
p,m-Xylene	11.1	0.0500	10.0	111	70-130
o-Xylene	5.55	0.0250	5.00	111	70-130
Total Xylenes	16.7	0.0250	15.0	111	70-130

Surrogate: 4-Bromochlorobenzene-PID 8.35 8.00 104 70-130

#### Matrix Spike (2040021-MS1)

Source: P009104-01 Prepared: 10/01/20 Analyzed: 10/01/20

Benzene	5.24	0.0250	5.00	ND	105	54-133
Toluene	5.30	0.0250	5.00	ND	106	61-130
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131
o-Xylene	5.35	0.0250	5.00	ND	107	63-131
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131

Surrogate: 4-Bromochlorobenzene-PID 8.34 8.00 104 70-130

#### Matrix Spike Dup (2040021-MSD1)

Source: P009104-01 Prepared: 10/01/20 Analyzed: 10/01/20

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.18	20
Toluene	5.33	0.0250	5.00	ND	107	61-130	0.491	20
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	0.552	20
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	0.439	20
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	0.306	20
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	0.395	20

Surrogate: 4-Bromochlorobenzene-PID 8.28 8.00 103 70-130



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/5/2020 9:39:49AM

### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rcc %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2040021-BLK1)**

Prepared: 10/01/20 Analyzed: 10/01/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			

**LCS (2040021-BS2)**

Prepared: 10/01/20 Analyzed: 10/01/20

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

**Matrix Spike (2040021-MS2)**

Source: P009104-01 Prepared: 10/01/20 Analyzed: 10/01/20

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

**Matrix Spike Dup (2040021-MSD2)**

Source: P009104-01 Prepared: 10/01/20 Analyzed: 10/01/20

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	5.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/5/2020 9:39:49AM

### 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 (2040020-BLK1)**

Prepared: 10/01/20 Analyzed: 10/01/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	50-200			

**LCS (2040020-BS1)**

Prepared: 10/01/20 Analyzed: 10/01/20

Diesel Range Organics (C10-C28)	435	25.0	500		87.0	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

**Matrix Spike (2040020-MS1)**

Source: E010002-01 Prepared: 10/01/20 Analyzed: 10/01/20

Diesel Range Organics (C10-C28)	458	25.0	500	ND	91.7	38-132			
Surrogate: n-Nonane	37.5		50.0		75.0	50-200			

**Matrix Spike Dup (2040020-MSD1)**

Source: E010002-01 Prepared: 10/01/20 Analyzed: 10/01/20

Diesel Range Organics (C10-C28)	444	25.0	500	ND	88.9	38-132	3.12	20	
Surrogate: n-Nonane	35.5		50.0		70.9	50-200			



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8 Soil Sampling	<b>Reported:</b>
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/5/2020 9:39:49AM

### Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2040025-BLK1)</b>									
Chloride	ND	20.0							Prepared: 10/01/20 Analyzed: 10/01/20
<b>LCS (2040025-BS1)</b>									
Chloride	249	20.0	250		99.5	90-110			Prepared: 10/01/20 Analyzed: 10/01/20
<b>Matrix Spike (2040025-MS1)</b>									
Chloride	292	20.0	250	50.4	96.6	80-120			Source: P009093-01 Prepared: 10/01/20 Analyzed: 10/01/20
<b>Matrix Spike Dup (2040025-MSD1)</b>									
Chloride	290	20.0	250	50.4	95.8	80-120	0.705	20	Source: P009093-01 Prepared: 10/01/20 Analyzed: 10/01/20

#### 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 35-8 Soil Sampling	
PO Box 18	Project Number:	12035-0156	Reported:
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/05/20 09:39

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

RPD      Relative Percent Difference

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

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

Page 1 of 1

Page 12 of 13

## Envirotech Analytical Laboratory

Printed: 9/29/2020 12:08:13PM

## 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:	09/28/20 17:07	Work Order ID:	P009104
Phone:	(505)215-8215	Date Logged In:	09/29/20 12:04	Logged In By:	Alexa Michaels
Email:		Due Date:	10/05/20 17:00 (5 day TAT)		

Chain of Custody (COC)

- |   | Yes                                 | No                       |                               |
|---|-------------------------------------|--------------------------|-------------------------------|
| 1. Does the sample ID match the COC?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                               |
| 2. Does the number of samples per sampling site location match the COC?     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                               |
| 3. Were samples dropped off by client or carrier?                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Carrier: <u>Brittany Hall</u> |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                               |
| 5. Were all samples received within holding time?                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                               |

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

Sample Turn Around Time (TAT)

- |   | Yes                      | No                                  |
|---|--------------------------|-------------------------------------|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Standard TAT ☒ 24-hr rush ☐ Immediate ☐ 48-hr rush ☐ 72-hr rush ☐

Sample Cooler

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 7. Was the sample cooler received in good condition?                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8. Was the sample(s) received in tact, i.e., not broken?                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9. Was the sample cooler received with custody/security seals intact?                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Were samples received with custody/security seals intact?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°C ± 2°C | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

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

12. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- |  | Yes                                 | No                       | N/A                                 |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 13. Are VOC samples collected in VOA Vials?                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14. Is the head space less than 6-8 mm (pea sized or less)?                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Was a trip blank (TB) included for VOC analyses?                           | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16. Are non-VOC samples collected in the correct containers?                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 17. Is the appropriate volume/weight or number of sample containers collected? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

Field Label

- |   | Yes                                 | No                       |
|---|-------------------------------------|--------------------------|
| 18. Were field sample labels filled out with the minimum information: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample ID ☒ Date/time collected ☒ Collectors name ☒

Sample Preservation

- |   | Yes                      | No                       | N/A                                 |
|---|--------------------------|--------------------------|-------------------------------------|
| 19. Does the COC or field labels indicate the samples were preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 20. Were VOCs preserved with 1:1 HCl?                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 21. Are IOC/WET correctly preserved with H2SO4 or other?              | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 22. Is lab filtration required and/or requested for dissolved metals? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 23. Are metals preserved with 5N (1:1) HNO3?                          | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Multiphase Sample Matrix

- |   | Yes                      | No                       | N/A                                 |
|---|--------------------------|--------------------------|-------------------------------------|
| 24. Does the sample have more than one phase, i.e., multiphase?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 25. If so, does the COC specify which phase(s) is to be analyzed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Subcontract Laboratory Information

- |   | Yes                      | No                                  |                  |
|---|--------------------------|-------------------------------------|------------------|
| 26. Was a subcontract laboratory specified by the client and if so who? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Subcontract Lab: |

Client Instruction

Email to: gcrabtree, admin, bhall, faragon, tknight, cgreen, igarcia, dcarter

Comments/Resolution

ABJ  
SCO Initials

9/29  
Date

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

Page 1 of 1

Date



envirotech Inc.

Report to:  
Felipe Aragon  
PO Box 18  
Flora Vista, NM 87415



5796 U.S. Hwy 64  
Farmington, NM 87401  
Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Logos Operating, LLC

Project Name: Jicarilla 35-8

Work Order: E010048

Job Number: 12035-0156

Received: 10/14/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/20/20

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: 10/20/20

Felipe Aragon  
PO Box 18  
Flora Vista, NM 87415



Project Name: Jicarilla 35-8  
Workorder: E010048  
Date Received: 10/14/2020 2:22:00PM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2020 2:22:00PM, under the Project Name: Jicarilla 35-8.

The analytical test results summarized in this report with the Project Name: Jicarilla 35-8 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](mailto:whinchman@envirotech-inc.com)

**Raina Lopez**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 4

Sample Data 5

    Base 5

QC Summary Data 6

    QC - Volatile Organics by EPA 8021B 6

    QC - Nonhalogenated Organics by EPA 8015D - GRO 7

    QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 8

    QC - Anions by EPA 300.0/9056A 9

Definitions and Notes 10

Chain of Custody etc. 11

### Sample Summary

Logos Operating, LLC	Project Name:	Jicarilla 35-8	Reported: 10/20/20 10:54
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base	E010048-01A	Soil	10/14/20	10/14/20	Glass Jar, 4 oz.
	E010048-01B	Soil	10/14/20	10/14/20	Glass Jar, 4 oz.
	E010048-01C	Soil	10/14/20	10/14/20	Glass Jar, 4 oz.

## Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8	<b>Reported:</b> 10/20/2020 10:54:29AM
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	

### Base

**E010048-01**

Analytic	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2042009
Benzene	ND	0.0250	1	10/15/20	10/15/20	
Toluene	ND	0.0250	1	10/15/20	10/15/20	
Ethylbenzene	ND	0.0250	1	10/15/20	10/15/20	
p,m-Xylene	ND	0.0500	1	10/15/20	10/15/20	
o-Xylene	ND	0.0250	1	10/15/20	10/15/20	
Total Xylenes	ND	0.0250	1	10/15/20	10/15/20	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	10/15/20	10/15/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2042009
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/20	10/15/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	10/15/20	10/15/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AY		Batch: 2042010
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/20	10/15/20	
Oil Range Organics (C28-C35)	ND	50.0	1	10/15/20	10/15/20	
Surrogate: n-Nonane		118 %	50-200	10/15/20	10/15/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: NE		Batch: 2042018
Chloride	34.8	20.0	1	10/15/20	10/15/20	





## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/20/2020 10:54:29AM

### Volatile Organics by EPA 8021B

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 (2042009-BLK1)

Prepared: 10/14/20 Analyzed: 10/14/20

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: 4-Bromochlorobenzene-PID 7.61 8.00 95.1 70-130

#### LCS (2042009-BS1)

Prepared: 10/14/20 Analyzed: 10/14/20

Benzene	4.78	0.0250	5.00	95.5	70-130
Toluene	4.90	0.0250	5.00	98.0	70-130
Ethylbenzene	4.84	0.0250	5.00	96.8	70-130
p,m-Xylene	9.58	0.0500	10.0	95.8	70-130
o-Xylene	4.77	0.0250	5.00	95.4	70-130
Total Xylenes	14.3	0.0250	15.0	95.7	70-130

Surrogate: 4-Bromochlorobenzene-PID 7.98 8.00 99.7 70-130

#### Matrix Spike (2042009-MS1)

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Benzene	10.4	0.0500	10.0	ND	104	54-133
Toluene	10.5	0.0500	10.0	ND	105	61-130
Ethylbenzene	10.4	0.0500	10.0	ND	104	61-133
p,m-Xylene	20.6	0.100	20.0	ND	103	63-131
o-Xylene	10.3	0.0500	10.0	ND	103	63-131
Total Xylenes	31.0	0.0500	30.0	ND	103	63-131

Surrogate: 4-Bromochlorobenzene-PID 16.2 16.0 101 70-130

#### Matrix Spike Dup (2042009-MSD1)

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Benzene	9.73	0.0500	10.0	ND	97.3	54-133	6.73	20
Toluene	9.94	0.0500	10.0	ND	99.4	61-130	5.59	20
Ethylbenzene	9.89	0.0500	10.0	ND	98.9	61-133	5.44	20
p,m-Xylene	19.6	0.100	20.0	ND	97.9	63-131	5.28	20
o-Xylene	9.77	0.0500	10.0	ND	97.7	63-131	5.37	20
Total Xylenes	29.3	0.0500	30.0	ND	97.8	63-131	5.31	20

Surrogate: 4-Bromochlorobenzene-PID 16.3 16.0 102 70-130



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/20/2020 10:54:29AM

### 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 (2042009-BLK1)**

Prepared: 10/14/20 Analyzed: 10/14/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.7	70-130			

**LCS (2042009-BS2)**

Prepared: 10/14/20 Analyzed: 10/14/20

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

**Matrix Spike (2042009-MS2)**

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Gasoline Range Organics (C6-C10)	100	40.0	100	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.5		16.0		90.6	70-130			

**Matrix Spike Dup (2042009-MSD2)**

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Gasoline Range Organics (C6-C10)	99.7	40.0	100	ND	99.7	70-130	0.528	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.4		16.0		89.9	70-130			



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8	Reported:
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/20/2020 10:54:29AM

### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AY

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 (2042010-BLK1)**

Prepared: 10/14/20 Analyzed: 10/14/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

**LCS (2042010-BS1)**

Prepared: 10/14/20 Analyzed: 10/14/20

Diesel Range Organics (C10-C28)	450	25.0	500		90.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

**Matrix Spike (2042010-MS1)**

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Diesel Range Organics (C10-C28)	468	25.0	500	ND	93.6	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

**Matrix Spike Dup (2042010-MSD1)**

Source: E010044-01 Prepared: 10/14/20 Analyzed: 10/14/20

Diesel Range Organics (C10-C28)	440	25.0	500	ND	87.9	38-132	6.27	20	
Surrogate: n-Nonane	51.8		50.0		104	50-200			



## QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 35-8	<b>Reported:</b>
PO Box 18	Project Number:	12035-0156	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/20/2020 10:54:29AM

### Anions by EPA 300.0/9056A

Analyst: NE

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 (2042018-BLK1)**

Prepared: 10/15/20 Analyzed: 10/15/20

Chloride ND 20.0

**LCS (2042018-BS1)**

Prepared: 10/15/20 Analyzed: 10/15/20

Chloride 249 20.0 250 99.6 90-110

**Matrix Spike (2042018-MS1)****Source: E010047-01** Prepared: 10/15/20 Analyzed: 10/15/20

Chloride 1480 20.0 250 1190 115 80-120

**Matrix Spike Dup (2042018-MSD1)****Source: E010047-01** Prepared: 10/15/20 Analyzed: 10/15/20

Chloride 1460 20.0 250 1190 109 80-120 1.05 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 35-8	
PO Box 18	Project Number:	12035-0156	<b>Reported:</b>
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	10/20/20 10:54

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

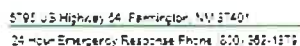
RPD Relative Percent Difference

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

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

## Chain of Custody

Page 1 of 1

Page 11 of 12

Ph: (525) 632-6115 Fax: (505) 632-1665

envirotech-inc.com  
labadmin@envirotech-inc.com

## Envirotech Analytical Laboratory

Printed: 10/14/2020 2:38:13PM

## 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: 10/14/20 14:22	Work Order ID: E010048
Phone: (505)215-8215	Date Logged In: 10/14/20 14:29	Logged In By: Alexa Michaels
Email:	Due Date: 10/21/20 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: Clay GreenSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? No

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

Client Instruction

email to: gcrabtree, cgreen, bhall, lgarcia, tknight

Comments/Resolution

email to: gcrabtree, cgreen, bhall, lgarcia, tknight

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

Date



envirotech Inc.

**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 22013

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 22013
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/1/2022