

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

Responsible Party **ACCEPTED FOR RECORD**

Responsible Party: DJR Operating, LLC	OGRID 371838
Contact Name: Larissa Farrell	Contact Telephone (505) 444-0289
Contact email: lfarrell@djrlc.com	Incident # (assigned by OCD) nRM2006541507
Contact mailing address 1 Road 3263, Aztec, NM 87410	

## Location of Release Source

Latitude 36.39008 \_\_\_\_\_ Longitude -107.35268 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla Apache F 6	Site Type: Well Site
Date Release Discovered: 2/28/2020	API# (if applicable) 30-039-05958

Unit Letter	Section	Township	Range	County
D	22	25N	05W	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) unknown	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

While removing the below grade tank, stained soil was observed. The amount of the release is unknown. Remediation activities have begun and 48-hr notice will be given for confirmation sampling once complete.

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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*

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

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

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

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

Printed Name: Larissa Farrell Title: Regulatory Specialist  
 Signature:  Date: 3/4/2020  
 email: lfarrell@djrlc.com Telephone: (505) 444-0289

#### OCD Only

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

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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?

\_\_\_\_\_ (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

☐ Yes ☒ No

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

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

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

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

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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: Larissa Farrell Title: Regulatory Specialist  
 Signature:  Date: 5/8/2020  
 email: lfarrell@djrlc.com Telephone: (505) 444-0289

### 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: **ACCEPTED FOR RECORD** Date: **8/16/2020**  
 Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**Larissa Farrell**

---

**From:** Larissa Farrell  
**Sent:** Monday, March 9, 2020 4:42 PM  
**To:** kcmannwell@yahoo.com  
**Cc:** Richard Graves  
**Subject:** FW: 48-hour notification of sampling - Jicarilla Apache F 6 #NRM2006541507

Keith,

We will also be conducting confirmation sampling at the Jicarilla Apache F 6 on Wednesday March 11, 2020 at 12:00pm.

Thank you,

Larissa Farrell  
Regulatory Specialist  
(505)444-0289  
[lfarrell@djrlc.com](mailto:lfarrell@djrlc.com)



**From:** Larissa Farrell  
**Sent:** Friday, March 6, 2020 8:33 AM  
**To:** Hobson Sandoval <hsandoval2012@gmail.com>; Jason Sandoval <jasonsandoval@jicarillaoga.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Subject:** 48-hour notification of sampling - Jicarilla Apache F 6 #NRM2006541507

Good morning,

On behalf of DJR Operating, Envirotech will be conducting confirmation sampling at the Jicarilla Apache F 6 on Wednesday March 11, 2020 at 12:00pm. Please let this serve as 48-hour notification of confirmation sampling.

Jicarilla Apache F 6  
API# 30-039-05958  
#NRM2006541507

Thank you,

Larissa Farrell  
Regulatory Specialist  
(505)444-0289  
[lfarrell@djrlc.com](mailto:lfarrell@djrlc.com)



March 16, 2020

Larissa Ferrell  
Regulatory Specialist  
DJR ENERGY

Hi Larissa,

Per our conversation about the Backfill Material for The Jicarilla Apache F-6 and Jicarilla Apache Tribal 122 2. Your Company has the permission from the Jicarilla Apache Nation Environmental Protection Office (JAN-EPO) to use said ponds for backfill of the two locations. I will be out of the office for Tuesday and Wednesday of this week, don't hesitate to call should you have any questions.

Thank You,

K.C. Manwell, Environmental Specialist  
JAN-EPO  
505-330-8031





May 7, 2020

Project #17035-0181  
NMOCD Incident #nRM2006541507

Ms. Larissa Farrell  
DJR Operating, LLC  
1 Road 3263  
Aztec, New Mexico 87410

Phone: (505) 632-3476  
E-mail: [lfarrell@djrlc.com](mailto:lfarrell@djrlc.com)

**RE: BGT and Release Closure Report for the Jicarilla Apache F-6 Compressor Station  
Located in Section 22, Township 25N, Range 5W, Rio Arriba County, New Mexico**

Dear Ms. Farrell:

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by DJR Operating, LLC (DJR) to provide sampling activities for the closure of a below grade tank (BGT) at the Jicarilla Apache F-6 compressor station located within Section 22, Township 25 North, Range 5 West, Rio Arriba County, New Mexico; see enclosed **Figure 1, Vicinity Map**.

On February 28, 2020, DJR contracted roustabout personnel removed the BGT and Envirotech personnel collected a five-point composite soil sample from the exposed surface of the former location of the BGT. The sample was identified as *Composite* and prepared for field screening activities.

**BGT FIELD SCREENING ANALYSIS**

Field screening for VOCs was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Prior to performing field screening activities, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas. The soil sample was also screened in the field for total petroleum hydrocarbons (TPH) per United States Environmental Protection Agency (EPA) Method 418.1 using an Infracal Total Oil and Gas (TOG)/ TPH Analyzer. A 3-point calibration was completed prior to conducting soil screening. The soil sample screening results returned a result of 1,288 mg/kg for TPH and 1.5 ppm for VOCs. Field screening protocol followed the manufacture's operating procedure and, field screening results are provided in **Appendix A, Field Notes**.

The subject location was undergoing de-commissioning, and the location was being fully reclaimed per all applicable regulations; therefore, DJR closed the BGT and based on the enclosed **Appendix B, Siting Criteria Documentation**, and in accordance with the following standards per *19.15.29.12 NMAC*:



DJR Operating, LLC  
 Jicarilla Apache F-6  
 BGT and Release Closure  
 Project #17035-0181  
 February-March, 2020  
 Page 2

Depth to Groundwater	Constituent	Method	Limit
≥ 50 feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO/DRO/MRO)	EPA Method 8015D	100 mg/kg
	BTEX	EPA Method 8021B	50 mg/kg
	Benzene	EPA Method 8021B	10 mg/kg

Based on the field screening results and elected closure standards, TPH was above the applicable closure criteria; see enclosed **Table 1, Summary of Soil Analytical Results**. Subsequently, a release notification (C-141) was submitted to the New Mexico Oil Conservation Division (NMOCD) and Jicarilla Oil and Gas Administration (JOGA) per *19.15.29.10 NMAC*.

#### RELEASE CLOSURE CONFIRMATION LABORATORY ANALYSIS

DJR contracted roustabout personnel completed the remediation excavation on March 17, 2020; the final excavation measured 15 feet by 12 feet by 7 feet in depth. On the same day, Envirotech personnel returned to the site to perform confirmation sampling activities under the witness of DJR representatives Richard Graves and Larissa Farrell.

Per verbal direction from a JOGA representative, one (1) five-point composite sample was collected from the base of the excavation and one five-point composite sample was collected from the excavation walls. Soil samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech Analytical Laboratory. Soil sample locations are illustrated in **Figure 2, Site Map** and excavation activities are documented in the attached **Appendix C, Site Photography**.

The laboratory analytical results were compared to the most stringent release closure criteria provided in *19.15.29.12 NMAC*. Based on laboratory analytical results, the concentrations of contaminants of concern were below the applicable release closure criteria and do not require further remediation actions; see enclosed **Table 1, Summary of Soil Analytical Results and Appendix D, Laboratory Analytical Report**.

#### SUMMARY AND CONCLUSIONS

On February 28, 2020, Envirotech personnel performed confirmation sampling of soil beneath the BGT at the Jicarilla Apache F-6 compressor station. Based on the field screening results and visual observations of stained soil a release was confirmed. DJR subsequently completed a remediation excavation, and confirmation sampling was performed on March 17, 2020. Upon receipt of





DJR Operating, LLC  
Jicarilla Apache F-6  
BGT and Release Closure  
Project #17035-0181  
February-March, 2020  
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laboratory analytical results and verbal approval from JOGA, on March 26, 2020, DJR personnel backfilled and re-contoured the location of the former BGT. The site was reseeded with the approved Jicarilla Mesa seed mixture.

Based on the analytical results, Envirotech recommends requesting a **No Further Action** status from the NMOCD and JOGA regarding the BGT closure and subsequent release remediation and reclamation.

#### 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.

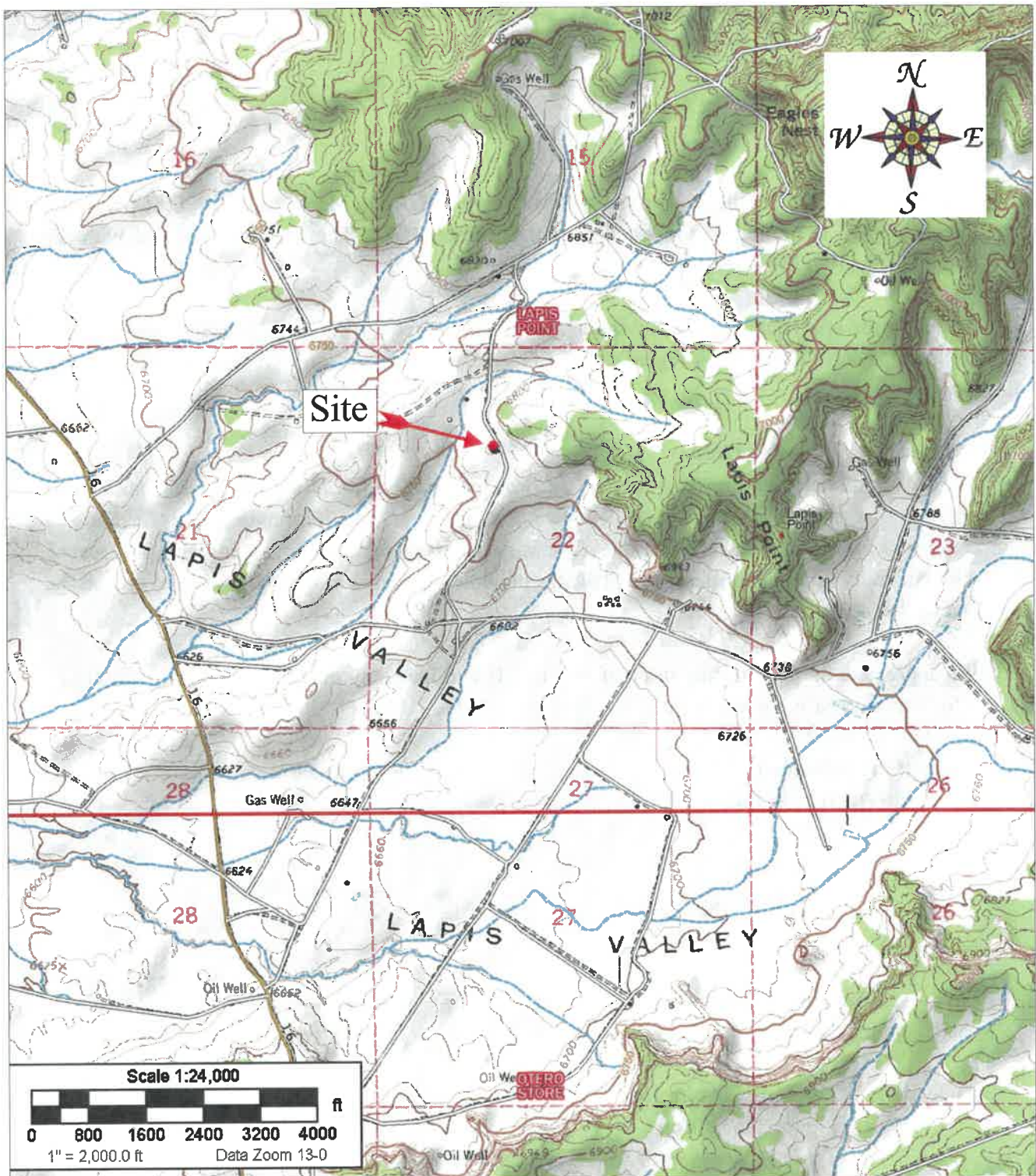
Reviewed by:

\_\_\_\_\_  
Brittany Hall  
Environmental Field Technician  
[bhall@envirotech-inc.com](mailto:bhall@envirotech-inc.com)

\_\_\_\_\_  
Felipe Aragon, CHMM, CES  
Environmental Assistant Manager  
[faragon@envirotech-inc.com](mailto:faragon@envirotech-inc.com)

Enclosures: Figure 1, *Vicinity Map*  
Figure 2, *Site Map*  
Table 1, *Summary of Soil Analytical Results*  
Appendix A, *Field Notes*  
Appendix B, *Siting Criteria*  
Appendix C, *Site Photography*  
Appendix D, *Laboratory Analytical Report*

Cc: Client File 17035



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

DJR Operating, LLC.  
 Jicarilla Apache F-6 Compressor Station  
 Section 16, Township 25N, Range 5W  
 36.40377, -107.36813  
 Incident No. nRM2006541507

Project Number: 17035-0181

Date Drawn: 3/10/2020

**envirotech**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS

5796 U.S. HIGHWAY 64  
 Farmington, New Mexico 87401  
 505.632.0615

Vicinity Map

Figure #1

DRAWN BY:  
 Brittany Hall

PROJECT MANAGER:  
 Felipe Aragon





### Legend

— F-6 BGT Wall Composite

● F-6 BGT Base

\* Sample locations represent 5-point composite samples



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

MAP DRAWN BY:

BAH  
4/2/2020

REVISIONS BY:

BAH  
5/8/2020

APPROVED BY:

FRA  
4/14/2020

Scale

1"=25'



## Figure 2, Site Map

DJR Operating, LLC.  
Jicarilla Apache F #006 Compressor Station  
Section 22, Township 25N, Range 5W  
36.38904, -107.35082  
Project #17035-0181  
Incident No. nRM2006541507

Table 1, Summary of Soil Analytical Results

DJR Operating, LLC

BGT and Release Closure Report

Jicarilla Apache F #006

Section 22, Township 25N, Range 5W

Rio Arriba County, New Mexico

Project #17035-0181

Incident #nRM2006541507

Sample Description *	Date	Sample Depth	EPA Method 8015			EPA Method 8021		EPA Method 300.0
			GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
			Not Applicable			10 mg/kg		600 mg/kg
NMOC Release Closure Criteria (Table 1 - 19.15.29.12)								
Composite**	2/28/2020	1-2 inches bgs	1,288			NA	NA	NA
F-6 BGT Base	3/17/2020	5 ft	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
F-6 BGT Wall Composite	3/17/2020	1-4 ft	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0

\* 5-point composite soil sample

\*\*- Field Screening Analysis only (EPA Method 418.1)


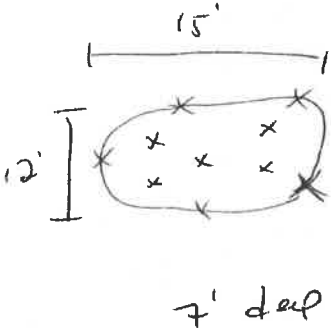
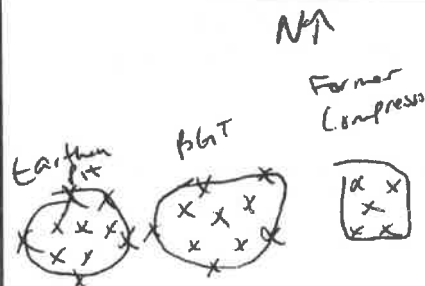
NA - Not Analyzed

**BOLD** - above NMOCD Closure Criteria

Practical Solutions for a Better Tomorrow

CLIENT: <u>DJR</u>		<b>envirotech</b> <small>(603) 632-0015 (800) 362-1575 2750 U.S. Hwy 54, Farmington, NH 07401</small>		Environmental Specialist: <u>BHarr</u>					
CLIENT/JOB #: <u>17235-018</u>				LAT: <u>3638902</u>					
START DATE: <u>2/28/2020</u>				LONG: <u>-107.35073</u>					
FINISH DATE: <u>2/28/2020</u>									
Page # _____ of _____									
<b>FIELD REPORT: BELOW GROUND TANK VERIFICATION</b>									
LOCATION NAME:	<u>Jicarilla Apache</u>		WELL #:	<u>F-4</u> Temp Pit: _____ PERM Pit: _____					
QUAD/UNIT:	SEC: <u>22</u>	TWP: <u>25N</u>	RNG: <u>5W</u>	PM: _____					
QTR/FOOTAGE:	CNTY: <u>Rio Arriba</u>		ST: <u>NM</u>						
Excavation Approx:	_____	Feet X _____	Feet X _____	Feet Deep _____	Cubic Yardage: _____				
Disposal Facility:	_____		Remediation Method: _____						
Land Owner:	<u>Jicarilla</u>		API: _____	Pit Volume: _____					
Construction Material:		Double Walled, With Leak Detection:							
Temporary Pit Closure : NMAC 19.15.17 Table II (Permitted after 6/28/2013)									
BGT Closure: NMAC 19.15.17 Table I (Permitted after 6/28/2013)									
<input checked="" type="checkbox"/> BGT Closure: BENZENE $\leq 0.2$ mg/kg, BTEX $\leq 50$ mg/kg, TPH (418.1) $\leq 100$ mg/kg, CHLORIDES $\leq 250$ mg/kg (Permitted before 6/28/2013)									
<b>FIELD 418.1 ANALYSIS</b>									
SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)	
<u>Composite</u>		<u>1</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>322</u>	<u>1288</u>	
<b>PID RESULTS</b>		<b>SITE PERIMETER</b>			<b>SAMPLE PROFILE</b>				
SAMPLE ID	RESULTS (mg/kg)								
<u>1</u>	<u>1.5</u>								
<b>FIELD CHLORIDES RESULTS</b>									
SAMPLE ID	READING	CALC. (mg/kg)							
SAMPLE ID	ANALYSIS	US EPA							
	BENZENE	8021B/8015							
	BTEX	8021B/80260B							
	GRO & DRO	8015							
	CHLORIDES	EPA300							
	TPH	418.1							
Analyst Signature: <u>Brian Hall</u> Printed Name: <u>Brian Hall</u>			NOTES: Tank pulled w/ Brian, Clay, Richard, + Alfred as witnesses  WO #: _____ Who ordered/Site Rep.: _____						



CLIENT: <u>DJR</u> CLIENT/JOB #: <u>17035-0101</u> START DATE: <u>3/2/2020</u> FINISH DATE: _____ Page # _____ of _____	 (800) 632-0610 (800) 662-1070 8700 U.S. Hwy 84, Farmington, MN 57401	Environmental Specialist: <u>R. Hall</u> LAT: <u>36.38902</u> LONG: <u>-107.35073</u>																																													
<b>FIELD REPORT: BELOW GROUND TANK VERIFICATION</b>																																															
LOCATION NAME: <u>Jicarilla Apache</u> WELL # <u>F-6</u> Temp Pit _____ PERM Pit _____ QUAD/INIT SEC TWP. <u>22</u> RNG <u>25N</u> PM <u>SW</u> QTR/FOOTAGE: CNTY: <u>La Bamba</u> ST: <u>New Mexico</u>																																															
Excavation Approx: <u>See below</u> Feet X <u>15</u> Feet X <u>12</u> Feet Deep <u>7'</u> Cubic Yardage _____ Disposal Facility: _____ Remediation Method: _____ Land Owner <u>Jicarilla Apache</u> API: _____ Pit Volume: _____ Construction Material Double Walled, With Leak Detection.																																															
Temporary Pit Closure: NMAC 19.15.17 Table II (Permitted after 6/28/2013) BGT Closure: NMAC 19.15.17 Table I (Permitted after 6/28/2013) BGT Closure: BENZENE $\leq 0.2$ mg/kg, BTEX $\leq 50$ mg/kg, TPH (418.1) $\leq 100$ mg/kg, CHLORIDES $\leq 250$ mg/kg (Permitted before 6/28/2013)																																															
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE DESCRIPTION</th> <th>TIME</th> <th>SAMPLE ID</th> <th>LAB #</th> <th>WEIGHT</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)																																				
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Analyst Signature: <u>Brittany Hall</u> Printed Name: <u>Brittany Hall</u>		NOTES: WO #: _____ Who ordered/Site Rep.: _____																																													



**Site Name:** Jicarilla Apache F-6 Compressor Station  
**Compressor Associated with API #:** 30-039-05958  
**BGT Lat/Long:** 36.38904, -107.35082  
**TRS:** Unit D Section 22 T25N R5W  
**Land Jurisdiction:** Jicarilla Apache Nation  
**County:** Rio Arriba

**Wellhead Protection Area Assessment**

Determine the horizontal distance from all known water sources within 1/2 mile of the release including private and domestic water sources. Water sources are wells, springs or other sources of fresh water **extraction**. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)

Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance
NMOSE Well	SJ0110	36.4243	-107.39569	4.3 miles
Livestock Pond				5,599 ft SE

**Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)**

'Significant watercourse' means a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5 minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.

600 feet west of BGT location

Depth to Groundwater Determination (NMAC 19.15.29.11A.2)	
Cathodic Report/Site Specific Hydrogeology	Prior ranking on Jicarilla Pit Remediation and Closure Report form dated April 21, 1998, indicates depth to GW at 50-100 feet
Elevation Differential	Unnamed dry wash 0.5 miles west -61 ft lower than site; Largo Canyon - 6.5 miles west - 500 ft lower elevation
Water Wells	
Cathodic Report Nearby Wells	

Sensitive Receptor Determination		Yes	No
**If a release occurs within the following areas, the RP must treat the release as if it occurred less than 50 ft to Groundwater (NMAC 19.15.29.12C.4):			
<300' of any continuously flowing watercourse or any other significant watercourse		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<300' of an occupied permanent residence, school, hospital, institution or church		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<1000' of any water well or spring		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within incorporated municipal boundaries or within a defined municipal fresh water well field		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<300' of a wetland		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the area overlying a subsurface mine		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within an unstable area		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within a 100-year floodplain		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explain any 'Yes' Marks:

Actual Depth to Groundwater is: ≤50 ☐ 50-100 ☒ >100 ☒

\*\*Treat Depth to Groundwater as if it's ≤ 50 ft? Yes ☐ No ☒

	≤50	50-100	>100
Release Action Levels are... 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

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

OK Dates and  
volumes indicate  
slightly more  
active than  
NATURAL RESOURCES  
AND OIL & GAS ADMINISTRATION

## PH REMEDIATION AND CLOSURE REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401Facility or Well Name: JICARILLA APACHE F #6Location: Unit or Qtr/Qtr Sec D Sec 22 T 25N R 5W County RIO ARribaPit Type: Separator ☐ Dehydrator ☐ Other COMPRESSOR

Land Type: \_\_\_\_\_

Pit Location: Pit dimensions: length 25, width 50, depth 25

(Attach diagram)

Reference: wellhead ☐ other COMPRESSORFootage from reference: 100'Direction from reference: West Degrees \_\_\_\_\_ East North \_\_\_\_\_X West of South \_\_\_\_\_

## Depth To Groundwater:

(Vertical distance from  
contaminants to seasonal  
high water elevation of  
groundwater)

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 points)

10

## Distance to an Ephemeral Stream

(Downgradient dry wash greater than  
ten feet in width)

Less than 100 feet	(10 points)
Greater than 100 feet	(0 points)

0

## Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and  
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)
Greater than 100 feet	(0 points)

0

## Wellhead Protection Area:

(Less than 200 feet from a private  
domestic water source, or: less than  
1000 feet from all other water sources)

Yes	(20 points)
No	(0 points)

20

## Distance To Surface Water:

(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

Less than 100 feet	(20 points)
100 feet to 1000 feet	(10 points)
Greater than 1000 feet	(0 points)

10RANKING SCORE (TOTAL POINTS): 40



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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

**PLSS Search:**

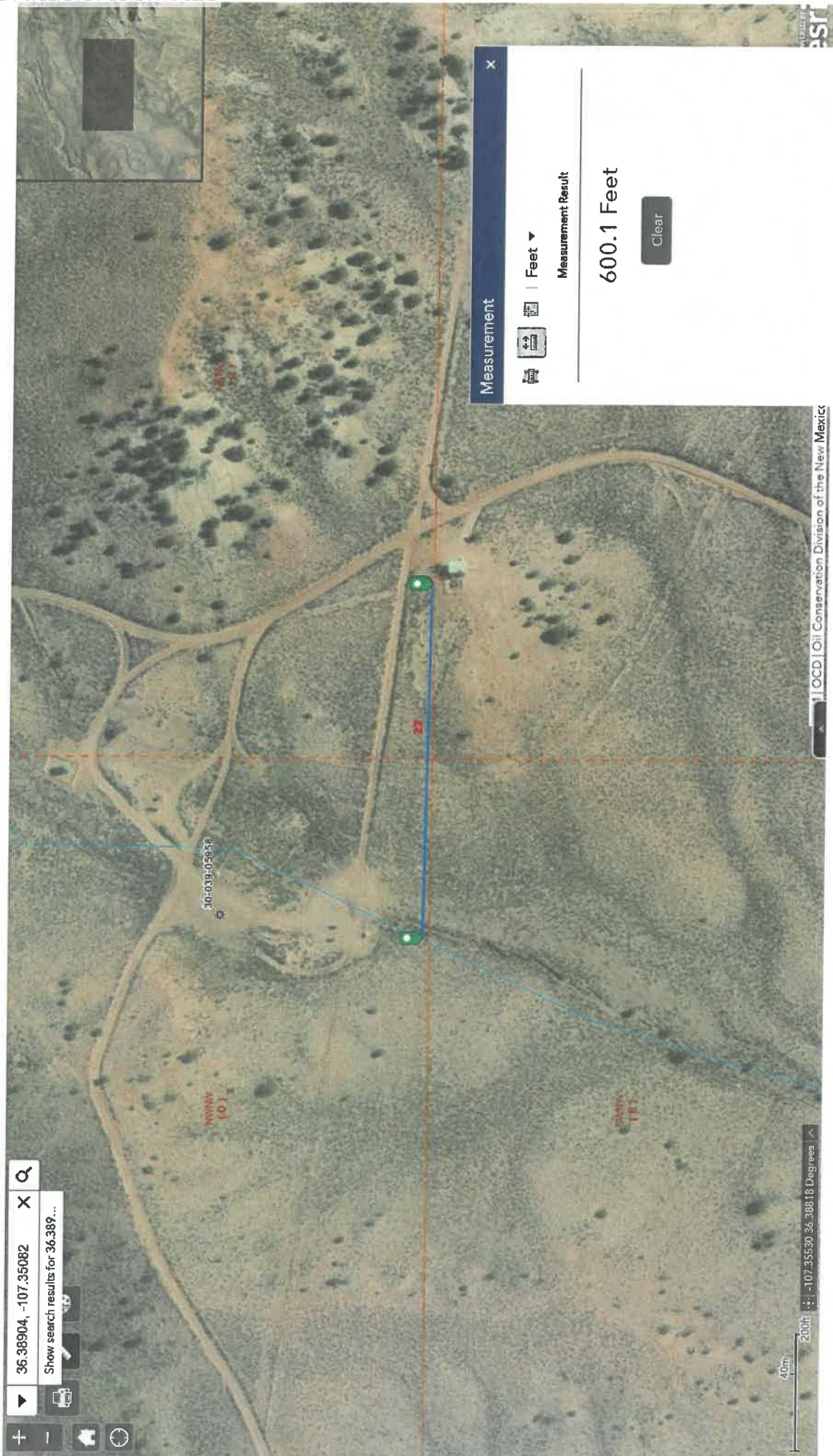
**Section(s):** 14, 15, 16, 21,  
22, 23, 26, 27,  
28      **Township:** 25N      **Range:** 05W

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.

5/12/20 11:21 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER








## Unnamed Dry Wash

0.5 miles west of compressor station; 61 feet lower elevation than subject site

### Legend

 36.38904, -107.35082

36.38904, -107.35082



1000 ft

**SITE PHOTOGRAPHY  
BGT AND RELEASE CLOSURE REPORT  
DJR OPERATING, LLC.  
JICARILLA APACHE F #6 COMPRESSOR STATION  
PROJECT #17035-0181  
INCIDENT #NRM2006541507**

February 28, 2020



Picture 1: View of Sign



Picture 2: View of BGT Removal



**SITE PHOTOGRAPHY  
BGT AND RELEASE CLOSURE REPORT  
DJR OPERATING, LLC.  
JICARILLA APACHE F #6 COMPRESSOR STATION  
PROJECT #17035-0181  
INCIDENT #NRM2006541507**

March 17, 2020



Picture 3: View of BGT Excavation



Picture 4: View of Backfilled and Recontoured Area



## Analytical Report

### Report Summary

Client: DJR Operating, LLC

Samples Received: 3/17/2020

Job Number: 17035-0181

Work Order: P003094

Project Name/Location: Jicarilla Apache F-6  
Confirmation Sampling

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 5/7/20

Walter Hinchman, Laboratory Director

Supplement to analytical report generated on: 3/20/20 1:11 pm



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted 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 the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



DJR Operating, LLC  
1 Rd 3263  
Aztec NM, 87410

Project Name: Jicarilla Apache F-6 Confirmation Sampling  
Project Number: 17035-0181  
Project Manager: Felipe Aragon

**Reported:**  
05/07/20 14:18

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
F-6 BGT Base	P003094-01A	Soil	03/17/20	03/17/20	Glass Jar, 4 oz.
	P003094-01B	Soil	03/17/20	03/17/20	Glass Jar, 4 oz.
BGT Wall Composite	P003094-02A	Soil	03/17/20	03/17/20	Glass Jar, 4 oz.
	P003094-02B	Soil	03/17/20	03/17/20	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	Jicarilla Apache F-6 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0181	05/07/20 14:18
Aztec NM, 87410	Project Manager:	Felipe Aragon	

**F-6 BGT Base  
P003094-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	2012020	03/18/20	03/18/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012018	03/18/20	03/18/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012018	03/18/20	03/18/20	EPA 8015D	
Surrogate: n-Nonane		90.3 %		50-200	2012018	03/18/20	03/18/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %		50-150	2012020	03/18/20	03/18/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2012021	03/18/20	03/18/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache F-6 Confirmation Sampling	Reported: 05/07/20 14:18
1 Rd 3263	Project Number:	17035-0181	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

**BGT Wall Composite  
P003094-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	2012020	03/18/20	03/18/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012018	03/18/20	03/18/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012018	03/18/20	03/18/20	EPA 8015D	
Surrogate: n-Nonane		87.1 %		50-200	2012018	03/18/20	03/18/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012020	03/18/20	03/18/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %		50-150	2012020	03/18/20	03/18/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2012021	03/18/20	03/18/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache F-6 Confirmation Sampling	Reported: 05/07/20 14:18
1 Rd 3263	Project Number:	17035-0181	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

## Volatile Organics by EPA 8021 - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 2012020 - Purge and Trap EPA 5030A

## Blank (2012020-BLK1)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Benzene	ND	0.0250	mg/kg							
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	7.92		"	8.00		99.0	50-150			

## LCS (2012020-BS1)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Benzene	4.79	0.0250	mg/kg	5.00		95.8	70-130			
Toluene	4.93	0.0250	"	5.00		98.7	70-130			
Ethylbenzene	4.86	0.0250	"	5.00		97.1	70-130			
p,m-Xylene	9.66	0.0500	"	10.0		96.6	70-130			
o-Xylene	4.83	0.0250	"	5.00		96.6	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.14		"	8.00		102	50-150			

## Matrix Spike (2012020-MS1)

Source: P003094-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Benzene	4.92	0.0250	mg/kg	5.00	ND	98.4	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.2	61.4-133			
p,m-Xylene	9.83	0.0500	"	10.0	ND	98.3	63.3-131			
o-Xylene	4.89	0.0250	"	5.00	ND	97.8	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

## Matrix Spike Dup (2012020-MSD1)

Source: P003094-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Benzene	4.83	0.0250	mg/kg	5.00	ND	96.5	54.3-133	1.92	20	
Toluene	4.94	0.0250	"	5.00	ND	98.8	61.4-130	2.27	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	96.9	61.4-133	2.27	20	
p,m-Xylene	9.62	0.0500	"	10.0	ND	96.2	63.3-131	2.13	20	
o-Xylene	4.81	0.0250	"	5.00	ND	96.3	63.3-131	1.61	20	
Total Xylenes	14.4	0.0250	"	15.0	ND	96.2	0-200	1.96	200	
Surrogate: 4-Bromochlorobenzene-PID	8.11		"	8.00		101	50-150			

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DJR Operating, LLC  
1 Rd 3263  
Aztec NM, 87410

Project Name: Jicarilla Apache F-6 Confirmation Sampling  
Project Number: 17035-0181  
Project Manager: Felipe Aragon

Reported:  
05/07/20 14:18

### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 2012018 - DRO Extraction EPA 3570

##### Blank (2012018-BLK1)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	42.4		"	50.0		84.9	50-200			

##### LCS (2012018-BS1)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Diesel Range Organics (C10-C28)	389	25.0	mg/kg	500		77.9	38-132			
Surrogate: n-Nonane	44.8		"	50.0		89.5	50-200			

##### Matrix Spike (2012018-MS1)

Source: P003093-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Diesel Range Organics (C10-C28)	590	25.0	mg/kg	500	142	89.7	38-132			
Surrogate: n-Nonane	55.9		"	50.0		112	50-200			

##### Matrix Spike Dup (2012018-MSD1)

Source: P003093-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Diesel Range Organics (C10-C28)	604	25.0	mg/kg	500	142	92.5	38-132	2.33	20	
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			

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DJR Operating, LLC  
1 Rd 3263  
Aztec NM, 87410

Project Name: Jicarilla Apache F-6 Confirmation Sampling  
Project Number: 17035-0181  
Project Manager: Felipe Aragon

Reported:  
05/07/20 14:18

### Nonhalogenated Organics by 8015 - GRO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 2012020 - Purge and Trap EPA 5030A

##### Blank (2012020-BLK1)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		"	8.00		89.3	50-150			

##### LCS (2012020-BS2)

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0		93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		"	8.00		90.0	50-150			

##### Matrix Spike (2012020-MS2)

Source: P003094-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		"	8.00		87.2	50-150			

##### Matrix Spike Dup (2012020-MSD2)

Source: P003094-01

Prepared: 03/18/20 0 Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	46.2	20.0	mg/kg	50.0	ND	92.3	70-130	6.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		"	8.00		87.3	50-150			

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DJR Operating, LLC	Project Name:	Jicarilla Apache F-6 Confirmation Sampling	<b>Reported:</b> 05/07/20 14:18
1 Rd 3263	Project Number:	17035-0181	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

**Anions by 300.0/9056A - Quality Control****Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2012021 - Anion Extraction EPA 300.0/9056A****Blank (2012021-BLK1)**

Prepared &amp; Analyzed: 03/18/20 1

Chloride ND 20.0 mg/kg

**LCS (2012021-BS1)**

Prepared &amp; Analyzed: 03/18/20 1

Chloride 251 20.0 mg/kg 250 100 90-110

**Matrix Spike (2012021-MS1)**

Source: P003094-01

Prepared &amp; Analyzed: 03/18/20 1

Chloride 251 20.0 mg/kg 250 ND 100 80-120

**Matrix Spike Dup (2012021-MSD1)**

Source: P003094-01

Prepared &amp; Analyzed: 03/18/20 1

Chloride 252 20.0 mg/kg 250 ND 101 80-120 0.441 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.

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1 Rd 3263  
Aztec NM, 87410

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Project Number: 17035-0181  
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**Reported:**  
05/07/20 14:18

#### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Report Attention