

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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOC District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOC District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

ACCEPTED
FOR
RECORD

- Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: DJR Operating, LLC OGRID #: 371838
Address: 1 Road 3263 Aztec, NM 87410
Facility or well name: Jicarilla Apache F 6
API Number: 30-039-05958 OCD Permit Number: _____
U/L or Qtr/Qtr D Section 22 Township 25N Range 05W County: Rio Arriba
Center of Proposed Design: Latitude 36.389035 Longitude -107.350822 NAD83
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal

2.

☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.

☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Well Fluid
Tank Construction material: Unknown
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

4.

☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify _____

6.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)☐ Screen ☐ Netting ☐ Other _____☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers☐ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC***Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*****General siting****Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells☐ Yes ☒ No
☐ NA**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☒ NAWithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ NoWithin the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ NoWithin an unstable area. (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ NoWithin a 100-year floodplain. (**Does not apply to below grade tanks**)

- FEMA map

☐ Yes ☐ No**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ Alternative
- Proposed Closure Method: ☒ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: 3/26/2020

20.

Closure Method:

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure for private land only)
☐ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☒ Disposal Facility Name and Permit Number
☒ Soil Backfilling and Cover Installation
☒ Re-vegetation Application Rates and Seeding Technique
☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.389035 Longitude -107.350822 NAD: ☐ 1927 ☒ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Larissa Farrell Title: Regulatory Specialist

Signature:  Date: 5/12/2020

e-mail address: lfarrell@djrlc.com Telephone: (505) 444-0289

Larissa Farrell

Subject: FW: 72 Hour Notification Via Certified Mail-Not Required

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Wednesday, February 26, 2020 7:32 AM
To: Dave Brown <DBrown@djrlc.com>
Cc: Richard Graves <rgraves@djrlc.com>
Subject: RE: 72 Hour Notification Via Certified Mail-Not Required

Dave,

I have it on the schedule, If an OCD representative is not on location at 10AM please continue on.

Thank you.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Dave Brown <DBrown@djrlc.com>
Sent: Tuesday, February 25, 2020 5:18 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Richard Graves <rgraves@djrlc.com>
Subject: [EXT] RE: 72 Hour Notification Via Certified Mail-Not Required

Cory:

We have rescheduled the final testing for 10:00 am on Friday the 28th of February for the F-10 site. After we test the F-10, we will proceed to the Jicarilla Apache F-6 Compressor Station for first testing around compressor area, pull the BGT and perform initial sampling beneath the BGT. Both Hobson Sandoval and Jason Sandoval have been notified regarding this schedule. Please advise if you can make it on Friday morning.

Regards,

Dave Brown

Manager of Government and Regulatory Affairs
303-887-3695
505-419-9931
DBrown@djrlc.com



From: Dave Brown
Sent: Monday, February 24, 2020 4:13 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Cc: Richard Graves <rgraves@djrlc.com>

Subject: FW: 72 Hour Notification Via Certified Mail-Not Required

Cory:

Please find the note below where Hobson Sandoval, on behalf of the Jicarilla Nation, waived the 72 surface owner notice for two compressor site closures where BGT's are being removed. We have been updating JOGA (Jason Sandoval) and Hobson on a daily basis when work is being performed.

The two sites in question are:

- Jicarilla Apache F10 Compressor Station located in NENW of Section 16, T25N, R5W, Lat. 36.40407 Long: -107.36784; Surface Owner: Jicarilla Nation
- Jicarilla Apache F6 Compressor Station located in NW/NW of Sec. 22, T25N, R05W: Rio Arriba County: Lat. 36.386304, Long -107.353438: Surface Owner: Jicarilla Nation

We apologize for not providing you 72 hour notice on the F10 which was pulled last week, but we have not obtained confirmation samples for the area beneath the BGT yet, but I will forward copies to you of the two previous sampling events when they are available. Please accept this note as 72 hour notice for removing the BGT at the F-6 compressor site. We have tentatively scheduled Wednesday 2/24/20 at 8:00 a.m. to retest the soil remaining beneath the BGT at the F-10 site. We would also like to remove the BGT at the F-6 site and possibly obtain confirmation samples for closure. We have been working with the Jicarilla Nation to close the sites while the weather is cooperating. Please advise if you intend to be present for the BGT removal and if we will need to wait 72 hours to re-schedule the work.

Thank you.

Regards,

Dave Brown

Manager of Government and Regulatory Affairs

303-887-3695

505-419-9931

DBrown@djrlc.com



From: Dave Brown

Sent: Saturday, February 15, 2020 1:11 PM

To: Hobson Sandoval <hsandoval2012@gmail.com>

Subject: 72 Hour Notification Via Certified Mail-Not Required

Hobson:

Per our conversation earlier this week, the NMOCDC has a requirement that if we intend to remove a BGT, 72 hour notice ahead of the removal via certified mail to the surface owner is required. In the case of the Jicarilla F-10 and F-6 compressor sites, we plan on testing underneath a BGT at each site on Tuesday, February 18th beginning at 1:30. Just to confirm, you indicated the 72 hour certified mail notice to you is not necessary for these two projects.

With that being the case, on Tuesday we will proceed to have Envirotech collect samples. We are planning on field screening the samples before collecting any for lab analysis. I will plan on being there. Please let me know if you plan on being there or if Jason Sandoval will be there if you can't make it.

Have a great weekend.

Regards,

Dave Brown

Manager of Government and Regulatory Affairs

303-887-3695

505-419-9931

DBrown@dirllc.com



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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



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



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

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
Page 3

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.

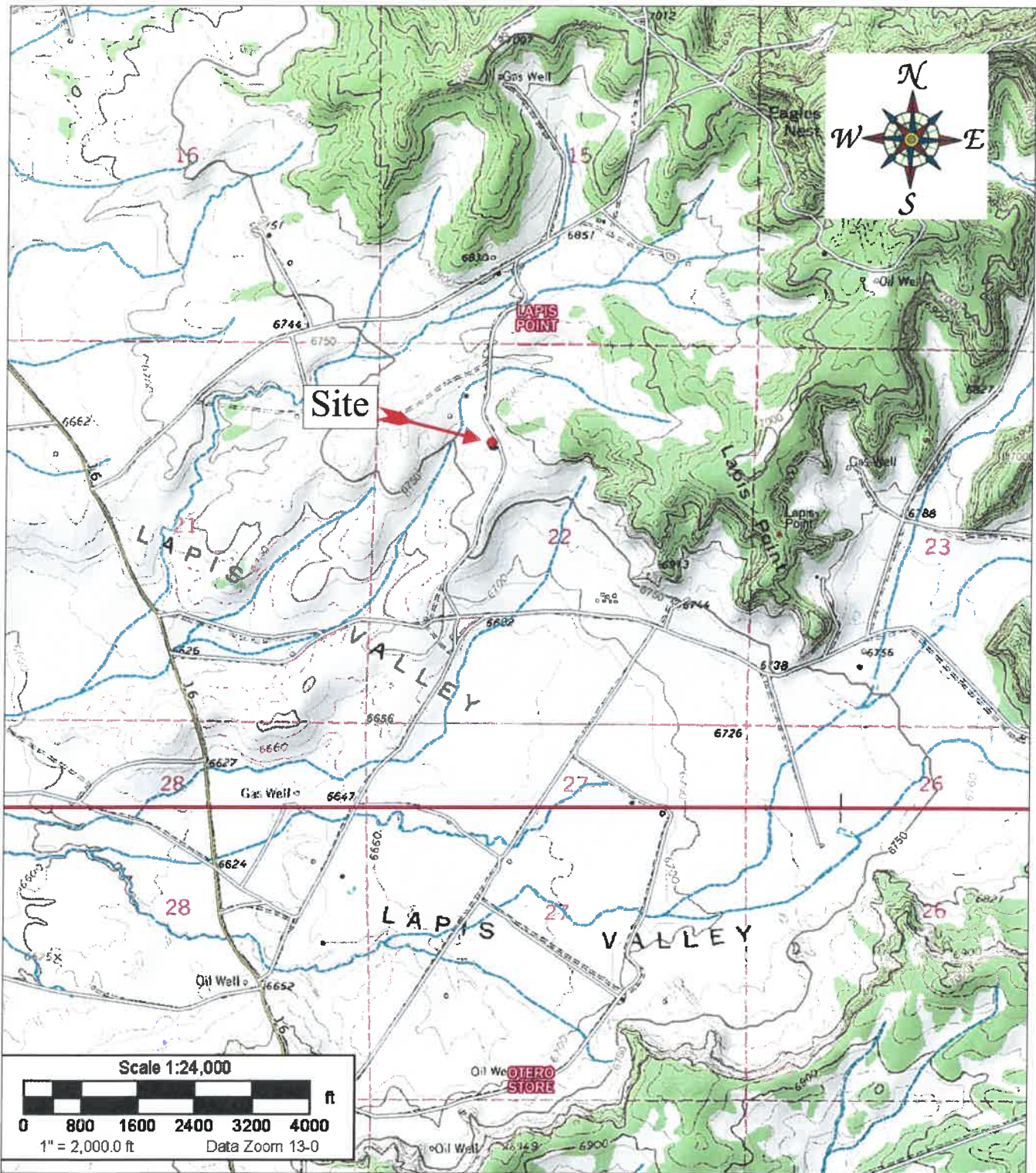
Reviewed by:

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

Felipe Aragon, CHMM, CES
Environmental Assistant Manager
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



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

Vicinity Map

Figure #1

Project Number: 17035-0181

Date Drawn: 3/10/2020

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	50 mg/kg	600 mg/kg	
NMOCD 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:

DJE


 (800) 632-0015 (800) 362-1679
 2706 U.S. Hwy 84, Farmington, NM 87401

Environmental Specialist: B Hall

CLIENT/JOB #: 17035-0181

START DATE: 2/28/2020

FINISH DATE: 2/28/2020

LAT:

3638902

LONG:

-107.35073

Page #

of

FIELD REPORT: BELOW GROUND TANK VERIFICATION

LOCATION NAME: Jicarilla Apache WELL #: F-4 Temp Pit: PERM Pit:

QUAD/UNIT: SEC: 22 TWP: 25N RNG: SW PM:

QTR/FOOTAGE: CNTY: Rio Arriba ST: NM

Excavation Approx: Feet X Feet X Feet Deep Cubic Yardage

Disposal Facility: Remediation Method:

Land Owner: Jicarilla 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 ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg (Permitted before 6/28/2013)

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION TIME SAMPLE ID LAB # WEIGHT mL FREON DILUTION READING CALC. (mg/kg)

Composite 1 5 20 4 372 1289

PID RESULTS

SAMPLE ID RESULTS (mg/kg)

1 1.5

SITE PERIMETER

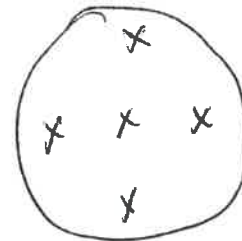
SAMPLE PROFILE

FIELD CHLORIDES RESULTS

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

Diagram showing site perimeter with a circle labeled 'Former compressor' and a cross marked 'BGT located to west'.



Analyst Signature

Printed Name

NOTES: Tank pulled w/ Brittany, Clay, Richard, + Alfred as witnesses

WO #:

Who ordered/Site Rep.:

CLIENT: DTM
 CLIENT/JOB #: 17035-01081
 START DATE: 3/17/2020
 FINISH DATE: _____

envirotech
 (800) 622-0610 (800) 262-1070
 6700 U.S. Hwy 84, Farmington, NM 87401

Environmental Specialist: R. Hall
 LAT: 36.38902
 LONG: -107.35073

Page # _____ of _____

FIELD REPORT: BELOW GROUND TANK VERIFICATION

LOCATION NAME: Jicarilla Apache WELL #: F-6 Temp Pit _____ PERM Pit _____
 QUAD/UNIT: _____ SEC: _____ TWP: 22 RNG: 25N PM: SW
 QTR/FOOTAGE: _____ CNTY: La Brea ST: New Mexico
 Excavation Approx: See below Feet X: 15 Feet X: 12 Feet Deep: 7' Cubic Yardage: _____
 Disposal Facility: _____ Remediation Method: _____
 Land Owner: Jicarilla Apache 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 ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg (Permitted before 6/28/2013)

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)

PID RESULTS

SAMPLE ID RESULTS (mg/kg)

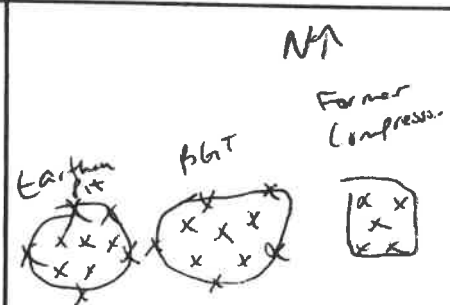
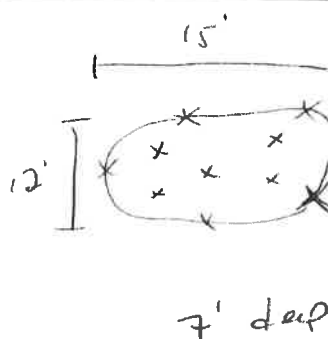
SITE PERIMETER

SAMPLE PROFILE

FIELD CHLORIDES RESULTS

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



NOTES:

Analyst Signature

Printed Name

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		
**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	Yes	No
<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 ☒

Release Action Levels are...	≤50	50-100	>100
Benzene	10	10	10
BTEX (mg/kg)	50	50	50
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500
Chlorides (mg/kg)	600	10,000	20,000

Dates and
Volumes indicate
Sampling Date
7/14/85
NATURAL RESOURCE ID #
AND OIL & GAS ADMINISTRATION

APPROVED

RANKING 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.

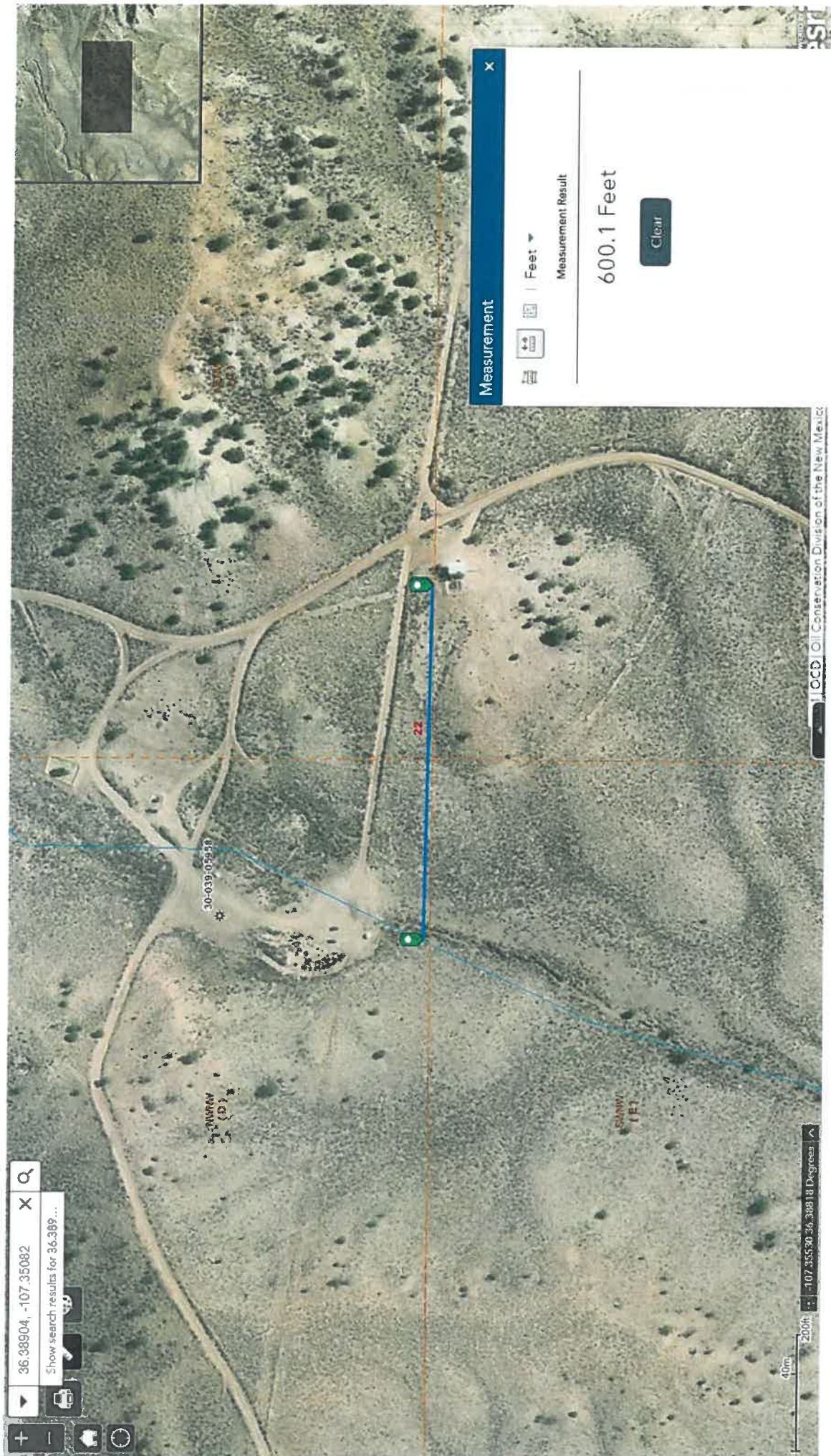
PLSS Search:

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

Google Earth

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
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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles 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
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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles 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
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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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
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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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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
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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
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

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 & Analyzed: 03/18/20 1

Chloride	ND	20.0	mg/kg
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LCS (2012021-BS1)

Prepared & Analyzed: 03/18/20 1

Chloride	251	20.0	mg/kg	250	100	90-110
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Matrix Spike (2012021-MS1)

Source: P003094-01

Prepared & Analyzed: 03/18/20 1

Chloride	251	20.0	mg/kg	250	ND	100	80-120
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Matrix Spike Dup (2012021-MSD1)

Source: P003094-01

Prepared & Analyzed: 03/18/20 1

Chloride	252	20.0	mg/kg	250	ND	101	80-120	0.441	20
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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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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

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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Client: <u>DJR Operating LLC</u> Project: <u>Jicarilla Apache F-6 Confirmation Sampling</u> Project Manager: <u>F Aragon</u> Address: _____ City, State, Zip _____ Phone: _____ Email: <u>Gcrabtree Admin Bhall Faragon Tknight Cgreen</u> <u>Jarcia Dcarter</u>	Report Attention Report due by: _____ Email: _____ Address: _____ City, State, Zip _____ Phone: _____
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Lab WO#	Job Number	TAT		EPA Program		
		1D	3D	RCRA	CWA	SD
PDO 3094	17035-0181		X			
		Analysis and Method		State		
				NM	CO	UT

[illegible]

Additional Instructions:

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

Relinquished by: (Signature) <i>Butte Hall</i>	Date 1455	Time 3:17 PM	Received by: (Signature) <i>Rain Lopez</i>	Date 3/17/20	Time 1455	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 <u>4</u> T3 _____ AVG Temp °C _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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



59061K Hickman CA Foundation 111 0761

1990年12月10日

Three Springs • 65 Mercado Street Suite 115, Durango CO 81301

PH 19701 250-0615 F-18001 262-1870