<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
811 S. First St., Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
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

RCVD 7/31/19

Responsible Party

Responsible Part	ty DJR	Operating, LLC		OGRID	371838
Contact Name	Amy	Archuleta		Contact T	elephone 505-632-3476 x201
Contact email	aarchule	eta@djrllc.com		Incident #	(assigned by OCD)
Contact mailing	address	1 Road 3263 A	ztec, NM 87410	nC	S1917731471
			Location	of Release S	ource
Latitude 36.2	27968		(NAD 83 in de	Longitude	-107.39692 mal places)
Site Name Jicar	illa Apa	che B 15E		Site Type	Well Site
Date Release Disc	covered	06-15-2019		API# (if app	plicable) 30-039-27724
Unit Letter Se	ection	Township	Range	Cour	ntv
	0	24N	05W	Rio Arriba	,
Surface Owner:			Nature and	d Volume of I	Release justification for the volumes provided below)
Crude Oil		Volume Released	(bbls)		Volume Recovered (bbls)
Normal Produced Wat	er	Volume Released	(bbls)	. I bbls	Volume Recovered (bbls) 2 bbls
		Is the concentration in the produced w			☐ Yes ☐ No
Condensate		Volume Released	(bbls)		Volume Recovered (bbls)
Natural Gas		Volume Released	(Mcf)		Volume Recovered (Mcf)
Other (describe	e)	Volume/Weight I	Released (provide	e units)	Volume/Weight Recovered (provide units)
Cause of Release A hole i in the be		oduced water tank	allowed approxi	mately 5.1 bbls to e	scape from the release. The release was contained

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

release as defined by	11 1 ES, for what reason(s) does the response	onsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☒ No		
If VES, was immediate no	tion given to the OCD? Drywhem? To w	ham? When and his what were (all and all all all all all all all all all al
11 1 ES, was illillediate lio	nice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible pe	arty must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the relea	ase has been stopped.	
	been secured to protect human health and	the environment.
		likes, absorbent pads, or other containment devices.
All free liquids and rec	coverable materials have been removed an	d managed appropriately
If all the actions described	above have not been undertaken, explain	why:
Per 19.15.29.8 B. (4) NMA	C the responsible party may commence r	emediation 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 blease attach all information needed for closure evaluation.
I hereby certify that the inform	nation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
public health or the environme	ent. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have
failed to adequately investigate addition, OCD acceptance of a	e and remediate contamination that pose a three C-141 report does not relieve the operator of	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		1 , , , , , , , , , , , , , , , , , , ,
Printed Name: Am Arc	huleta	Title: Regulatory
Signature:		Date: 06-20-2019
email: aarchuleta@djrllc	e.com	Telephone: 505-632-3476
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

Incident ID	
District RP	
Facility ID	
Application ID	

(ft bgs)

Yes No

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

	— —				
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 X 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?					
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 					
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs					
Photographs including date and GIS information Topographic/Aerial maps					
Laboratory data including chain of custody					

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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. m rchuleta Regulatory Printed Name: Title: 06-20-19 Signature: Date: email: __aarchuleta@djrllc.com Telephone: 505-632-3476 **OCD Only** Received by:

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- thuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Regulatory
email:aarchuleta@djrllc.com	Telephone: 505-632-3476
OCD Only	
Received by: OCD	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date: 8/8/19
Printed Name: Cory	Title: Environmental Specalist



July 29, 2019 Project #17035-0090

Ms. Amy Archuleta DJR Operating, LLC. PO Box 156 Bloomfield, New Mexico 87413

RE: CLOSURE REPORT FOR A RELEASE OF PRODUCED WATER LOCATED AT THE JICARILLA APACHE B 15E WELL SITE (API: 30-039-27724), RIO ARRIBA COUNTY, NEW MEXICO

Phone:

(505) 787-9100

Email: aarchuleta@djrllc.com

Dear Ms. Archuleta,

Enclosed please find the *Release Closure Report* detailing confirmation soil sampling activities conducted at the Jicarilla Apache B 15E Well site, located in Section 30, Township 24N, Range 5W, Rio Arriba County, New Mexico.

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

Respectfully Submitted,

ENVIROTECH, INC.

Brittany Hall

Environmental Field Technician

bhall@envirotech-inc.com

Enclosure: Release Closure Report

Cc: Client File Number 17035



RELEASE CLOSURE REPORT

LOCATION:
JICARILLA APACHE B 15E WELL SITE
SECTION 30, TOWNSHIP 24N, RANGE 5W
RIO ARRIBA COUNTY, NEW MEXICO

CONTRACTED BY:
Ms. AMY ARCHULETA
DJR OPERATING, LLC.
PO BOX 156
BLOOMFIELD, NEW MEXICO 87413

PROJECT #17035-0090 JULY 2019

DJR OPERATING, LLC RELEASE CLOSURE REPORT JICARILLA APACHE B15E; API: 30-039-27724 SECTION 30, TOWNSHIP 24N, RANGE 5W RIO ARRIBA COUNTY, NEW MEXICO PROJECT #17035-0090

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Tables:	Table 1, Sumi	mary of Soil Analytical Results	
	Appendices:	Appendix A, Site Photography and Field Notes Appendix B, Siting Criteria Documentation Appendix C, Laboratory Analytical Report	





DJR Operating, LLC Release Closure Report Jicarilla Apache B15E Well Site Project #17035-0090 July 2019 Page 1

Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by DJR Operating, LLC (DJR) to provide confirmation sampling activities for a produced water release excavation at the Jicarilla Apache B15E well site (API:30-039-27724) located in Section 30, Township 24 North, Range 5 West in Rio Arriba County, New Mexico; see **Figure 1**, *Vicinity Map*.

Confirmation Soil Sample Collection

Prior to Envirotech's arrival, DJR had removed the produced water tank and excavated the contaminated soil. Excavation dimensions were approximately 23 feet by 24 feet by 1.5 feet depth. Confirmation soil samples were collected under witness of Hobson Sandoval, Jicarilla Apache Nation Oil and Gas (JOGA) representative, on July 2, 2019.

The excavated area was divided into a north section (Area 1) and a south section (Area 2). One (1) five-point composite sample was collected from each section (B15E Area #1 and B15E Area #2). Samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech's analytical laboratory. Soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021B; and chlorides using EPA Method 300.0. Soil sample locations are illustrated in **Figure 2**, *Site Map and Appendix A*, *Site Photography and Field Notes*.

Laboratory Analytical Results

The following New Mexico Oil Conservation Division (NMOCD) closure criteria from *Table 1* in 19.15.29.12 (E) New Mexico Administrative Code (NMAC) was used as the release closure criteria:

- Chloride -20,000 mg/kg
- TPH (GRO+DRO+ORO) 2,500 mg/kg
- BTEX 50 mg/kg
- Benzene 10 mg/kg

Siting criteria documentation is provided in **Appendix B**, Siting Criteria Documentation.

All soil samples collected for laboratory analysis returned results below the laboratory detection limits for BTEX and TPH except DRO which returned results of 74.4 mg/kg in B-15E Area #1 and 71.0 mg/kg in B-15E Area #2. Chloride was detected in both samples analyzed and returned



DJR Operating, LLC Release Closure Report Jicarilla Apache B15E Well Site Project #17035-0090 July 2019 Page 2

concentrations of 1,770 mg/kg in B-15E Area #1 and 1,700 mg/kg in B-15E Area #2. Analytical results are summarized in **Appendix C**, *Laboratory Analytical Report* and **Table 1**, *Summary of Soil Analytical Results*.

Summary and Conclusions

On July 2, 2019, Envirotech personnel completed confirmation sampling of soil impacted by produced water due to a hole in the produced water tank at the Jicarilla Apache B15E well site, Rio Arriba County, New Mexico.

Based on the final laboratory analytical results of the excavation at the location, GRO, DRO, ORO, BTEX, and chlorides were below the applicable NMOCD and JOGA Closure Critiera for Soils Impacted by a Release. DJR Operating will place a tank back in operation at the location; therefore, reclamation will not be required at this time. Envirotech recommends **No Further Action** regarding the subject release site.

Statement of Limitations

The work and services provided by Envirotech 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 site of the incident. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

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

Respectfully submitted,

ENVIROTECH, INC.

Brittany Hall

Environmental Field Technician

bhall@envirotech-inc.com

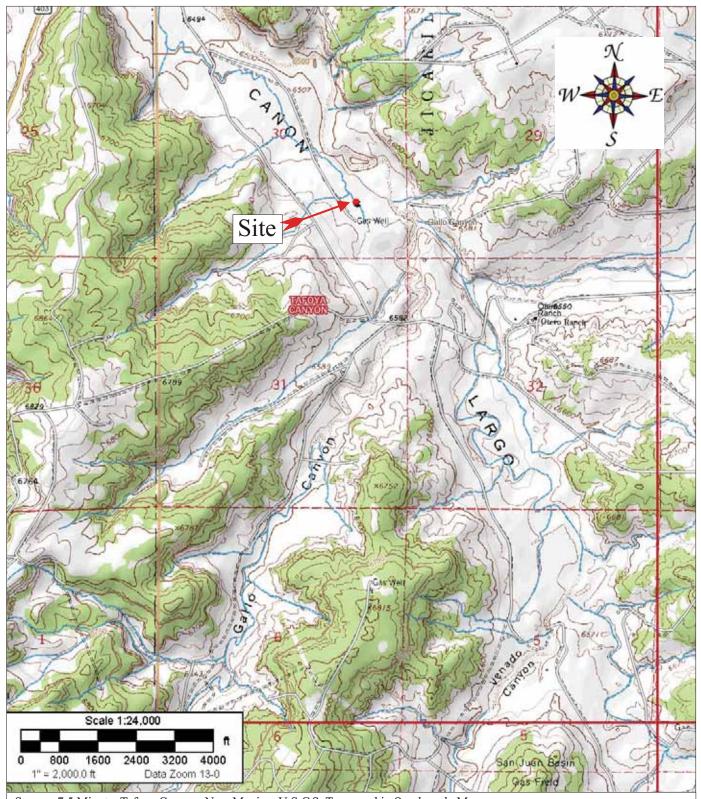
Reviewed by:

Felipe Aragon, CHMM, CES

Environmental Assistant Manager

faragon@envirotech-inc.com





Source: 7.5 Minute, Tafoya Canyon, New Mexico U.S.G.S. Topographic Quadrangle Map

Scale: 1:24,000 1" = 2,000

DJR Operating, LLC.
Jicarilla Apache B 15E Well Site
API Number 43-037-50077
Section 30, Township 24N, Range 5W
Rio Arriba County, New Mexico

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

Project Number: 17035-0090

Date Drawn: 7/15/2019

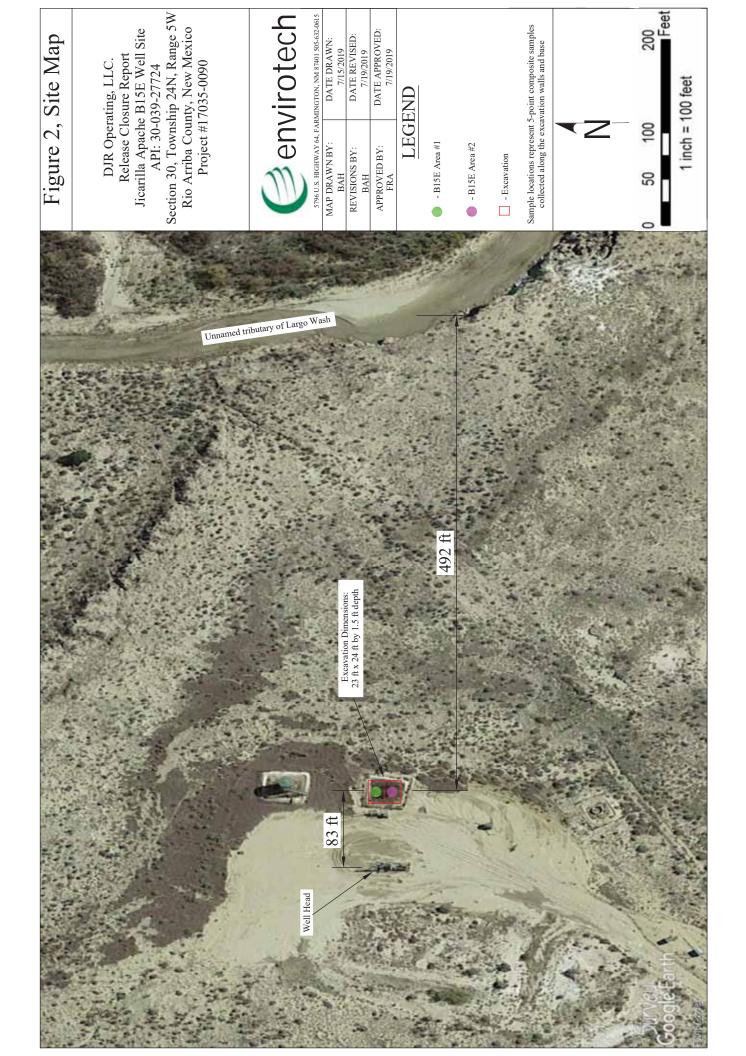


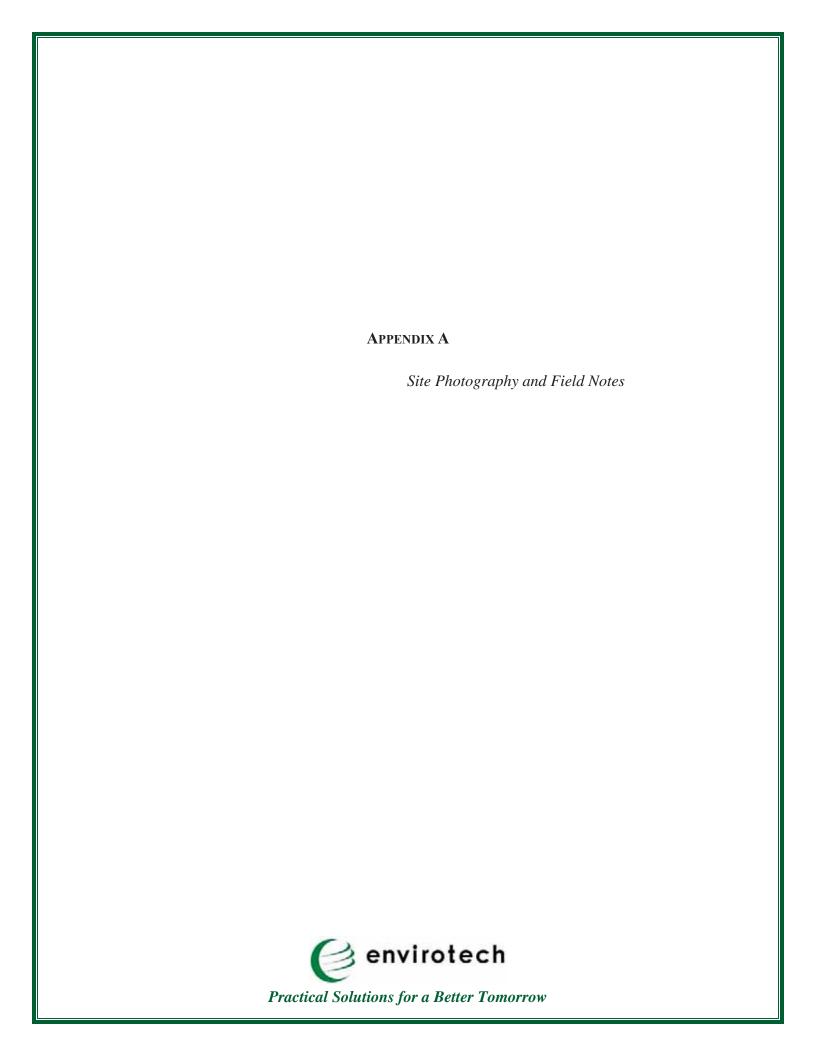


Table 1, Summary of Soil Analytical Results
DJR Operating, LLC
Release Closure Report
Jicarilla Apache B15E; API: 30-039-27724
Section 30, Township 24N, Range 5W
Rio Arriba County, New Mexico
Project #17035-0090

			EF	EPA Method 8015)15	EPA Me	EPA Method 8021	EPA Method 300.0
Sample Description*	Date	Sample Depth	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a [Table 1 -19.15.29.12 (E	for Soils Impac [Table 1 -19.15.	a for Soils Impacted by a Release [Table 1 -19.15.29.12 (E) NMAC]		2,500 mg/Kg		10 mg/Kg	50 mg/Kg	20,000 mg/Kg
B-15E Area #1	7/2/2019 0.5 -	0.5 - 1.5 feet	<20.0	74.4	<50.0	<0.025	<0.100	1,770
B-15E Area #2	7/2/2019 0.5 -	0.5 - 1.5 feet	<20.0	71.0	<50.0	<0.025	<0.100	1,700

*5-point composite soil samples





SITE PHOTOGRAPHY BGT RELEASE CLOSURE REPORT DJR OPERATING, LLC. JICARILLA APACHE B 15E WELL SITE PROJECT NUMBER 17035-0090 JULY 2019



Picture 1: Well Site Sign



Picture 2: View of Excavation looking East

SITE PHOTOGRAPHY BGT RELEASE CLOSURE REPORT DJR OPERATING, LLC. JICARILLA APACHE B 15E WELL SITE PROJECT NUMBER 17035-0090 JULY 2019



Picture 3: View of Excavation Looking North



Picture 4: View of Sampling Points

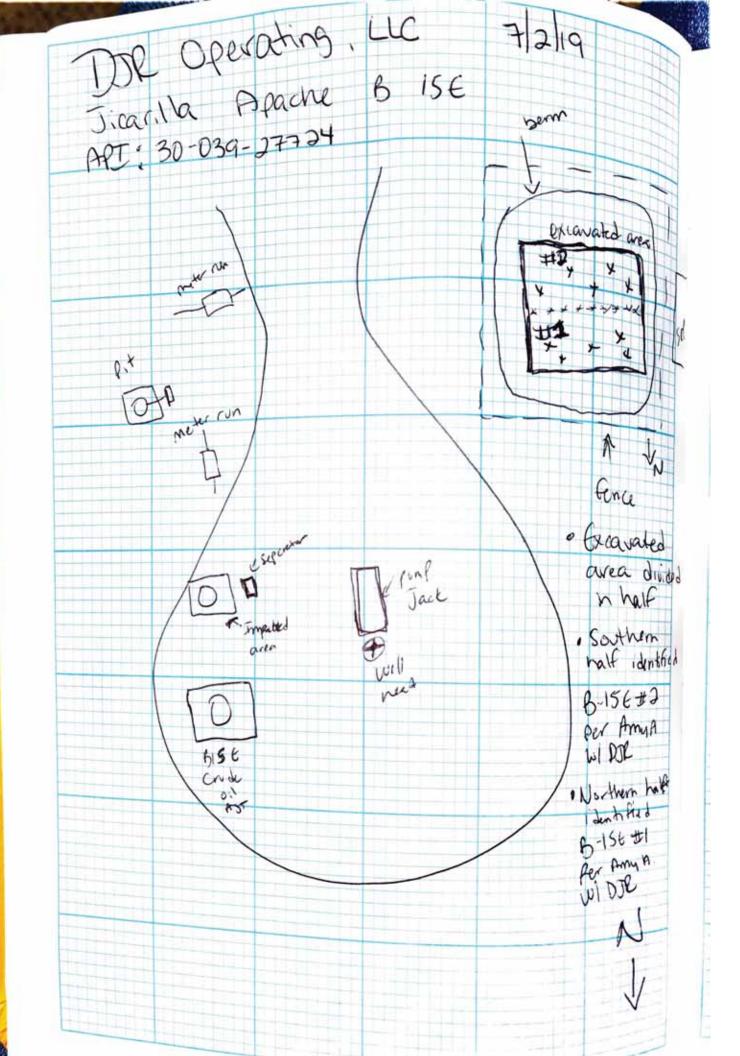
SITE PHOTOGRAPHY BGT RELEASE CLOSURE REPORT DJR OPERATING, LLC. JICARILLA APACHE B 15E WELL SITE PROJECT NUMBER 17035-0090 JULY 2019



Picture 5: Subsequent Backfill of Release Site



Picture 6: View of New In-Service Tank





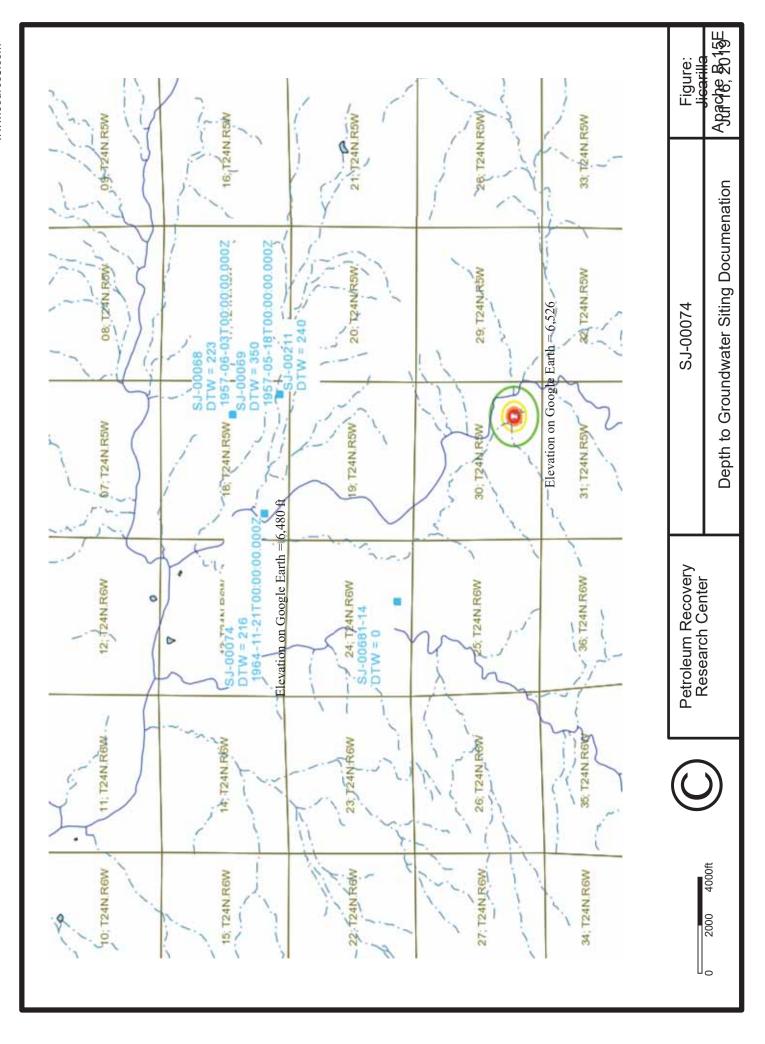
Lat/Long:	3	6.27968, -107.3968	32		
TRS:	Unit P S	E/SE Section 10 T2	24N R5W		
Land Jurisdiction:	Ji	carilla Apache Nati	on		
County:		Rio Arriba			
	ead Protection Are				
Determine the horizontal distance from all known w sources. Water sources are wells, springs or other s					
water sources used by less than five households for				nurces are mose	
Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance	
None reported within 1,000 feet of BGT	,		8		
Distance to Nearest Si	gnificant Waterco	urse (NMAC 19.15	5.29.11A.4)		
'Significant watercourse' means a watercourse with	n a defined bed and bo	ınk either named or i	dentified by a dashed	blue line on a	
USGS 7.5 minute quadrangle map or the next lower	order tributary with	a defined bed and ba	nk of such watercours	e.	
490 ft to east, 397 ft to west - unnamed tributar	ies of Largo Wash:	neasurements taken	from Google Farth	aerial images	
from BGT	ies of Largo Wash, i	neusurements taken	Trom Google Lartin	acriai images	
Depth to Groundw	ater Determination	n (NMAC 19.15.29	.11A.2)		
Cathodic Report/Site Specific Hydrogeology					
	None Available				
Elevation Differential	46 ft higher elevation	on than SJ-00074 (s	similar proximity to	unnamed	
Water Wells	SJ-00074 reports de	epth to water at 216	feet		
Cathodic Report Nearby Wells	None Available				
Sensitive Receptor Determination **Ha release occurs within the following greats the PP must treat the release as if it occurred less than					
**If a release occurs within the following areas, the RP must treat the release as if it occurred less than Yes					No
50 ft to Groundwater (NMAC 19.15.29.12C.4):		ant waternaring			1
<300' of any continuously flowing watercourse <200' of any lakebed, sinkhole or playa lake (m			Mark)		<u>√</u>
<300' of an occupied permanent residence, scho			ividi k)	H	7
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering					
purposes	,		S		✓
<1000' of any water well or spring					7
Within incorporated municipal boundaries or w	ithin a defined muni	icipal fresh water w	ell field		7
<300' of a wetland					7
Within the area overlying a subsurface mine					<u> </u>
Within an unstable area Within a 100-year floodplain				H	7
Explain any 'Yes' Marks:					
Dapidin dily 100 Marias					
Actual Depth to Groundwater is:		50-100	>100 ■		
**Treat Depth to Groundwate					
	≤50	50-100	>100	1	
Release Action Levels are Benzene		10	10		
BTEX (mg/kg)		50	50		
8015 TPH (GRO/DRO) (mg/kg)		1,000	1,000		
8015 TPH (GRO/DRO/MRO) (mg/kg)		2,500	2,500		
Chlorides (mg/kg)	600	10,000	20,000		

Jicarilla Apache B 15 E



Site Name:

API #:





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

SJ 00074 3 3 18 24N 05W

 \mathbf{X} 283811

4020835*

Driller License: Driller Company:

Driller Name: MCDONALD & JOHNSON

Drill Start Date: 11/21/1964 **Drill Finish Date:**

01/28/1965 Plug Date:

Log File Date: 11/29/1965 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: **Estimated Yield:**

Casing Size: 10.75 **Depth Well:** 1004 feet Depth Water: 216 feet

Water Bearing Stratifications: Top Bottom Description

> 960 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

> 945 995

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.

7/16/19 12:17 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help





Analytical Report

Report Summary

Client: DJR Operating, LLC

Samples Received: 7/2/2019 Job Number: 17035-0090 Work Order: P907006

Project Name/Location: Jicarilla Apache B15E-Confirmation Sampling

Report Reviewed By:	Walter Hinkman	Date:	7/25/19	
	Walter Hinchman, Laboratory Director	_		

Supplement to analytical report generated on: 7/10/19 2:09 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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com

Labadmin@envirotech-inc.com

Page 1 of 10



 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B-15E Area #1	P907006-01A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
	P907006-01B	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
B-15E Area #2	P907006-02A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
	P907006-02B	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.

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 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

B-15E Area #1 P907006-01 (Solid)

		P9070	06-01 (Soli	d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	50-1	50	1927020	07/05/19	07/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	74.4	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	00	1928016	07/09/19	07/09/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-1	50	1927020	07/05/19	07/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1770	20.0	mg/kg	1	1928006	07/08/19	07/08/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

B-15E Area #2 P907006-02 (Solid)

		P9070	06-02 (Soli	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	50-1	50	1927020	07/05/19	07/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	71.0	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate: n-Nonane		104 %	50-2	00	1928016	07/09/19	07/09/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927020	07/05/19	07/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50-1	50	1927020	07/05/19	07/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1700	20.0	mg/kg	1	1928006	07/08/19	07/08/19	EPA 300.0/9056A	

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DJR Operating, LLC

Project Name:

Jicarilla Apache B15E-Confirmation Sampling

1 Rd 3263 Aztec NM, 87410 Project Number: 17035-0090 Project Manager: Felipe Aragon **Reported:** 07/25/19 14:13

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1927020 - Purge and Trap EPA 5030A										
Blank (1927020-BLK1)				Prepared: (07/05/19 1 A	nalyzed: 0	7/08/19 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	7.75		"	8.00		96.9	50-150			
LCS (1927020-BS1)				Prepared: (07/05/19 1 A	nalyzed: 0	7/08/19 1			
Benzene	4.42	0.0250	mg/kg	5.00		88.4	70-130			
Toluene	4.79	0.0250	"	5.00		95.9	70-130			
Ethylbenzene	4.76	0.0250	"	5.00		95.3	70-130			
p,m-Xylene	9.79	0.0500	"	10.0		97.9	70-130			
o-Xylene	4.74	0.0250	"	5.00		94.7	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.75		"	8.00		96.8	50-150			
Matrix Spike (1927020-MS1)	Sou	rce: P907006-	01	Prepared: (07/05/19 1 A	analyzed: 0	7/08/19 1			
Benzene	4.43	0.0250	mg/kg	5.00	ND	88.6	54.3-133			
Toluene	4.80	0.0250	"	5.00	ND	96.1	61.4-130			
Ethylbenzene	4.77	0.0250	"	5.00	ND	95.3	61.4-133			
p,m-Xylene	9.81	0.0500	"	10.0	ND	98.1	63.3-131			
o-Xylene	4.75	0.0250	"	5.00	ND	94.9	63.3-131			
Total Xylenes	14.6	0.0250	"	15.0	ND	97.1	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		"	8.00		97.1	50-150			
Matrix Spike Dup (1927020-MSD1)	Sou	rce: P907006-	01	Prepared: (07/05/19 1 A	nalyzed: 0	7/08/19 1			
Benzene	4.20	0.0250	mg/kg	5.00	ND	84.1	54.3-133	5.22	20	
Toluene	4.55	0.0250	"	5.00	ND	91.0	61.4-130	5.41	20	
Ethylbenzene	4.51	0.0250	"	5.00	ND	90.3	61.4-133	5.42	20	
p,m-Xylene	9.30	0.0500	"	10.0	ND	93.0	63.3-131	5.41	20	
o-Xylene	4.51	0.0250	"	5.00	ND	90.2	63.3-131	5.04	20	
Total Xylenes	13.8	0.0250	"	15.0	ND	92.1	63.3-131	5.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.84		"	8.00		98.0	50-150			

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 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1928016 - DRO Extraction EPA 3570										
Blank (1928016-BLK1)				Prepared &	k Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.9		"	50.0		97.8	50-200			
LCS (1928016-BS1)				Prepared &	k Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.4	38-132			
Surrogate: n-Nonane	52.1		"	50.0		104	50-200			
Matrix Spike (1928016-MS1)	Sour	rce: P907006-	01	Prepared & Analyzed: 07/09/19 1						
Diesel Range Organics (C10-C28)	562	25.0	mg/kg	500	74.4	97.6	38-132			
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			
Matrix Spike Dup (1928016-MSD1)	Sour	rce: P907006-	01	Prepared &	k Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	591	25.0	mg/kg	500	74.4	103	38-132	4.94	20	
Surrogate: n-Nonane	53.1		"	50.0		106	50-200			

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Reporting

 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1927020 - Purge and Trap EPA 5030A										
Blank (1927020-BLK1)				Prepared: (07/05/19 1	Analyzed: 0	07/08/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.10		"	8.00		101	50-150			
LCS (1927020-BS2)				Prepared: (07/05/19 1 /	Analyzed: 0	7/08/19 1			
Gasoline Range Organics (C6-C10)	54.3	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		"	8.00		102	50-150			
Matrix Spike (1927020-MS2)	Sourc	e: P907006-	01	Prepared: (07/05/19 1 /	Analyzed: 0				
Gasoline Range Organics (C6-C10)	53.7	20.0	mg/kg	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		"	8.00		100	50-150			
Matrix Spike Dup (1927020-MSD2)	Sourc	e: P907006-	01	Prepared: (07/05/19 1 /	Analyzed: 0	7/08/19 1			
Gasoline Range Organics (C6-C10)	54.9	20.0	mg/kg	50.0	ND	110	70-130	2.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

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DJR Operating, LLC

Project Name:

Jicarilla Apache B15E-Confirmation Sampling

Source

%REC

1 Rd 3263 Aztec NM, 87410 Project Number: 176
Project Manager: Fel

Reporting

17035-0090 Felipe Aragon

Spike

Reported: 07/25/19 14:13

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1928006 - Anion Extraction EPA 300	.0/9056A									
Blank (1928006-BLK1)				Prepared &	Analyzed:	07/08/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1928006-BS1)				Prepared &	Analyzed:	07/08/19 1				
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (1928006-MS1)	Source	: P907006-	01	Prepared &	Analyzed:	07/08/19 1				
Chloride	2290	20.0	mg/kg	250	1770	208	80-120			SPK1
Matrix Spike Dup (1928006-MSD1)	Source	: P907006-	01	Prepared &	Analyzed:	07/08/19 1				
Chloride	1440	20.0	mg/kg	250	1770	NR	80-120	45.7	20	D1, SPK1

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 my differ slightly.

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24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



 1 Rd 3263
 Project Number:
 17035-0090
 Reported:

 Aztec NM, 87410
 Project Manager:
 Felipe Aragon
 07/25/19 14:13

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Ph (970) 339-0615 Fr (800) 362-1679

Tare Springs - 65 Mercade Street, Sale 115, Durango, CD 81301

5796 US Highway 64, Farmington, New 87487

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Analytical Laboratory

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