

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

NMOCD
MAR 23 2018

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: DJR Operating, LLC	Contact: Amy Archuleta	
Address: PO BOX 156 Bloomfield, NM 87413	Telephone No.: 505-632-3476 x201	
Facility Name: Turtle Mountain 35-1	Facility Type: Well	
Surface Owner: Federal	Mineral Owner: Federal	API No.: 30-045-33935

LOCATION OF RELEASE

Unit Letter SE/NE	Section 35	Township 24N	Range 08W	Feet from the 1980	North/South Line North	Feet from the 330	East/West Line East	County San Juan
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Latitude 36.2726131049 Longitude -107.643337 NAD83

NATURE OF RELEASE

Type of Release Motor oil from engine on pumping unit.	Volume of Release Unknown	Volume Recovered 8 yards of contaminated soil.
Source of Release Engine on pumping unit.	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Amy Archuleta	Date and Hour 12-11-17	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

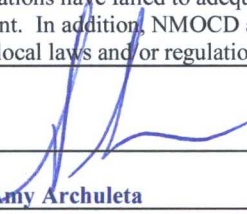
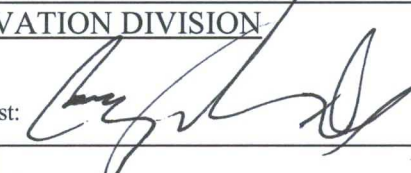
Describe Cause of Problem and Remedial Action Taken.*

On 11-22-17 we received a Notice of Written Order from the BLM (18CAWO07). It required DJR to "remove oil off compressor skid and remove contaminated soil and replace with fresh soil or gravel around skid." - The surface didn't look reportable, but upon excavation we felt it was necessary to report the contamination under the Pumping Unit. The total volume in unknown. This is located near a wash and will follow the >19 ranking criteria. The gearbox and engine both were leaking. The pumping unit has been removed from location.

Describe Area Affected and Cleanup Action Taken.*

This contamination is located under the pumping unit. A total of 5 yards have been excavated and taken to IEI's land farm. The pump jack has been removed and the area is ready to be tested.
This location was backfilled with soil brought from Aztec, NM. I spoke to Heather Perry from the BLM about backfill.
This location was re-excavated and tested again on 3-13-18. AES conducted the samples and Cory Smith witnessed. We have completed the closure as of 3-22-18. The backfill soil came from Envirotech's landfarm.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Amy Archuleta		Approved by Environmental Specialist: 	
Title: Regulatory		Approval Date: 5/4/18	Expiration Date:
E-mail Address: aarchuleta@djrlc.com		Conditions of Approval: —	Attached <input type="checkbox"/>
Date: 03-23-18 Phone: 505-632-3476 x201			

* Attach Additional Sheets If Necessary

#NCS 1801654367

24



March 13, 2018

Amy Archuleta
Regulatory Supervisor
DJR Operating, LLC
PO Box 156
Bloomfield, New Mexico 87413

Sent via electronic mail to:
aarchuleta@djrlc.com

**RE: Excavation Clearance Report
Turtle Mountain 35 #1 Release
API #3004533935
San Juan County, New Mexico**

Dear Ms. Archuleta:

On March 5, 2018, Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated area associated with petroleum-contaminated soils at the DJR Operating (DJR) Turtle Mountain 35 #1 release location. The release consisted of historic contamination discovered during removal of the pump-jack at the location. The initial excavation and sampling event was conducted by DJR personnel on December 19, 2017. The laboratory analytical results confirmed that concentrations of chlorides, benzene, toluene, ethyl-benzene and total xylenes (BTEX) were below the New Mexico Oil Conservation Division (NMOCD) action levels. However, concentrations of total petroleum hydrocarbons (TPH) exceeded NMOCD action levels for the subject location.

AES returned to the location for the final excavation and collection of confirmation soil samples. The excavation was completed by DJR contractors while AES was at the location on March 5, 2018.

1.0 Site Information

1.1 Location

Legal Description – SE¼ NE¼, Section 35, T24N, R8W, San Juan County, New Mexico

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

Release Latitude/Longitude – N36.27259 and W107.64347, respectively

Land Jurisdiction – Navajo Nation Allotment

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2018

1.2 NMOCD Ranking

The DJR Turtle Mountain 35 #1 is located within Navajo Nation Allotment lands. Navajo Nation adheres to action levels for releases and spills in New Mexico as established by the NMOCD.

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** The location is 10 to 20 feet higher than Blanco Wash, located 330 feet north. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be less than 50 feet below ground surface. (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Blanco Wash is located approximately 330 feet north of the location. (10 points)

1.3 Excavation Clearance

On March 5, 2018, DJR contractors completed an excavation of historic contamination discovered during removal of the pump-jack at the location, and AES personnel collected a total of five confirmation soil samples for field screening and laboratory analysis from the walls and bases of the excavation area. The final excavation measured approximately 12 feet by 28 feet by 2 to 3 feet deep. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

On March 5, 2018, five composite soil samples (SC-1 through SC-5) were collected from the walls and bases of the excavation. Per NMOCD representative, Cory Smith, SC-5 (base) was submitted for laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for volatile organic compound (VOC) vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil sample SC-5 was also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES' *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.2 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Green Analytical Laboratories in Durango, Colorado, and Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The samples were laboratory analyzed for:

- BTEX per USEPA Method 8021;
- TPH as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015 M/D; and
- Chlorides per USEPA Method 300.1

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figure 3. The AES Field Sampling Report and laboratory analytical reports are attached.

Table 1. Soil Field VOCs and TPH Results
Turtle Mountain 35 #1 Excavation Clearance
March 2018

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	100
SC-1	3/5/18	3	0.0	NA
SC-2	3/5/18	2	0.0	NA
SC-3	3/5/18	2 to 3	0.0	NA
SC-4	3/5/18	2 to 3	0.0	NA
SC-5	3/5/18	2 to 3	0.0	26.5

*Action level determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)*

NA = Not Analyzed

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, Chlorides, and TPH
Excavation Area Sample Locations and Results, December 2017 and March 2018

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>	<i>TPH – MRO (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
<i>NMOCD Action Level*</i>			10	50		100		250
Turtle Mtn 35-1	12/19/17	1.5 to 2	<0.050	<0.300	<10.0	213	235	32.8
SC-5	3/5/18	2 to 3	NA	NA	<4.6	<9.3	<47	NA

*Action level determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)*

NA = Not Analyzed

3.0 Conclusions and Recommendations

On March 5, 2018, final clearance of the excavation area was completed. Field sampling results and laboratory analytical results from the excavation extents showed field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for in SC-5.

Based on the final field sampling and laboratory analytical results of the excavation from December 19, 2017, and March 5, 2018, of petroleum contaminated soils at the Turtle

Mountain 35 #1, concentrations of contaminants of concern were below the applicable NMOCD action levels for the final base and sidewalls of the excavation pit. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Tami Knight, Project Lead, or Elizabeth McNally at (505) 564-2281.

Sincerely,



David J. Reese
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2018
- Figure 3. Excavation Area Sample Locations and Results, March 2018
- AES Field Sampling Report 030518
- Green Analytical Laboratories Twtle Mtn 35-1
- Hall Analytical Report 1803219

\\SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects
Dropbox\2018 Client Projects\DJ Resources\Turtle Mountain 35-1\Turtle Mountain 35 #1 Excavation
Clearance Report 031518 EM.docx



FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 DJR OPERATING
 TURTLE MOUNTAIN 35 #1
 API #30-045-33935
 SE1/4 NE1/4, SECTION 35, T24N, R8W
 SAN JUAN COUNTY, NEW MEXICO
 N36.27258, W107.64338



**animas
 environmental
 services**
 Farmington, NM • Durango, CO
 animasenvironmental.com

DRAWN BY:

C. Lameman

DATE DRAWN:

March 9, 2018

REVISIONS BY:

C. Lameman

DATE REVISED:

March 9, 2018

CHECKED BY:

T. Knight

DATE CHECKED:

March 9, 2018

APPROVED BY:

E. McNally

DATE APPROVED:

March 9, 2018

LEGEND

=====

SECONDARY CONTAINMENT

=====

BERM

- x -

FENCE



<div> <div> <div> <div></div> <div>AES</div> </div> <div> <div>animas</div> <div>environmental</div> <div>services</div> </div> </div> <div> <div>Farmington, NM • Durango, CO</div> <div>animasenvironmental.com</div> </div> </div>	DRAWN BY:	DATE DRAWN:	<div>FIGURE 2</div> <div> <div>AERIAL SITE MAP</div> <div>MARCH 2018</div> <div>DJR OPERATING</div> <div>TURTLE MOUNTAIN 35 #1</div> <div>API #30-045-33935</div> <div>SE1/4 NE1/4, SECTION 35, T24N, R8W</div> <div>SAN JUAN COUNTY, NEW MEXICO</div> <div>N36.27258, W107.64338</div> </div>
	REVISIONS BY:	DATE REVISED:	
	CHECKED BY:	DATE CHECKED:	
	APPROVED BY:	DATE APPROVED:	
	C. Lameman	March 9, 2018	
	C. Lameman	March 9, 2018	
	T. Knight	March 9, 2018	
	E. McNally	March 9, 2018	

FIGURE 3

EXCAVATION AREA SAMPLE LOCATIONS AND RESULTS MARCH 2018
 DJR OPERATING
 TURTLE MOUNTAIN 35 #1
 API #30-045-33935
 SE1/4 NE1/4, SECTION 35, T24N, R8W
 SAN JUAN COUNTY, NEW MEXICO
 N36.27258, W107.64338

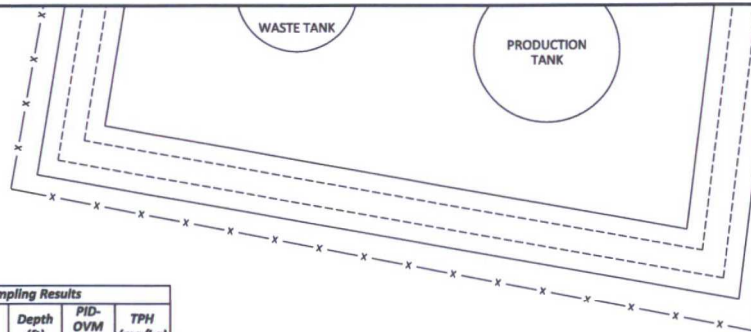
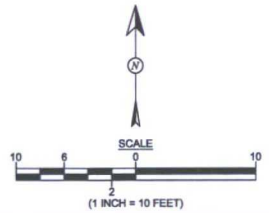


animas environmental services
 Farmington, NM • Durango, CO
 animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: March 9, 2018
REVISIONS BY: C. Lameman	DATE REVISED: March 9, 2018
CHECKED BY: T. Knight	DATE CHECKED: March 9, 2018
APPROVED BY: E. McNally	DATE APPROVED: March 9, 2018

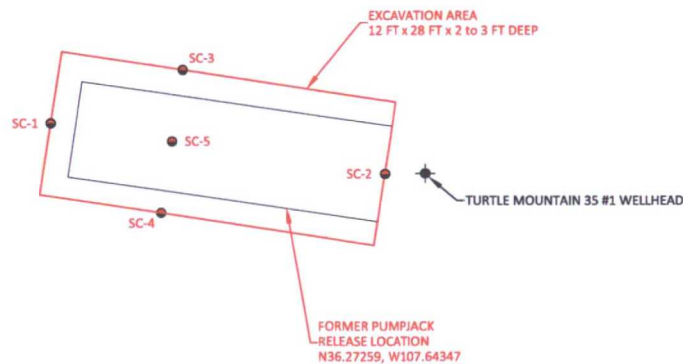
LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT
- BERM
- x- FENCE



Field Sampling Results				
Sample ID	Date	Depth (ft)	PID-OVM (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	3/5/18	3	0.0	NA
SC-2	3/5/18	2	0.0	NA
SC-3	3/5/18	2 to 3	0.0	NA
SC-4	3/5/18	2 to 3	0.0	NA
SC-5	3/5/18	2 to 3	0.0	26.5
ALL SAMPLES WERE COMPOSITE SAMPLES.				
NA - NOT ANALYZED				

Laboratory Analytical Results								
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	Chlorides (mg/kg)
NMOC ACTION LEVEL			10	50	100		250	
Turtle Mnt 35-1	12/19/17		<0.050	<0.300	<10.0	213	235	32.8
SC-5	3/5/18	2 to 3	NA	NA	<4.6	<9.3	<47	NA
SAMPLE Turtle Mnt 35-1 WAS COLLECTED BY CLIENT AND ANALYZED PER USEPA METHOD 8021B, 8015B AND 300.0.								
SAMPLE SC-5 WAS COLLECTED BY AES AND ANALYZED PER USEPA METHOD 8015D.								
NA - NOT ANALYZED								



AES Field Sampling Report

Animas Environmental Services, LLC



Client: DJR Operating

Project Location: Turtle Mountain 35 #1

Date: 3/5/2018

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	3/5/2018	9:43	West Wall	0.0	NA	NA	NA	NA	CL
SC-2	3/5/2018	9:37	East Wall	0.0	NA	NA	NA	NA	CL
SC-3	3/5/2018	9:34	North Wall	0.0	NA	NA	NA	NA	CL
SC-4	3/5/2018	9:40	South Wall	0.0	NA	NA	NA	NA	CL
SC-5	3/5/2018	9:46	Base	0.0	26.5	11:21	0.031	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

05 January 2018

Amy Archuleta
DJR Operating
#20 CR 5060
Bloomfield, NM 87413
RE: BTEX,TPH, CI

Enclosed are the results of analyses for samples received by the laboratory on 12/19/17 12:00.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Twtle Mnt 35-1	1712183-01	Solid	12/19/17 00:00	12/19/17 12:00

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

Twtle Mnt 35-1

1712183-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.6			%	1	12/27/17	EPA160.3/1684	H2	LLG
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Soluble (DI Water Extraction)

Chloride	32.8	10.9	1.56	mg/kg dry	10	01/05/18	EPA300.0		JDA
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Subcontracted – Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	12/28/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	12/28/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	12/28/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	12/28/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/28/17	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	95.7 %	72-148				12/28/17	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	3.53	mg/kg	1	12/28/17	8015B		MS
DRO >C10-C28*	213	10.0	2.04	mg/kg	1	12/28/17	8015B		MS
EXT DRO >C28-C36	235	10.0	2.04	mg/kg	1	12/28/17	8015B		MS

Surrogate: 1-Chlorooctane	80.6 %	28.3-164				12/28/17	8015B		MS
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Surrogate: 1-Chlorooctadecane	78.0 %	34.7-157				12/28/17	8015B		MS
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Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

General Chemistry - Quality Control

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

Batch B712216 - General Prep - Wet Chem

Duplicate (B712216-DUP1)

Source: 1712183-01

Prepared & Analyzed: 12/27/17

% Dry Solids	91.5		%		91.6			0.133	20	
--------------	------	--	---	--	------	--	--	-------	----	--

Soluble (DI Water Extraction) - Quality Control

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

Batch B801022 - General Prep - Wet Chem

Blank (B801022-BLK1)

Prepared: 01/04/18 Analyzed: 01/05/18

Chloride	ND	10.0	mg/kg wet							
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LCS (B801022-BS1)

Prepared: 01/04/18 Analyzed: 01/05/18

Chloride	241	10.0	mg/kg wet	250		96.5	85-115			
----------	-----	------	-----------	-----	--	------	--------	--	--	--

LCS Dup (B801022-BSD1)

Prepared: 01/04/18 Analyzed: 01/05/18

Chloride	242	10.0	mg/kg wet	250		96.8	85-115	0.331	20	
----------	-----	------	-----------	-----	--	------	--------	-------	----	--

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Page 4 of 8



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control

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

Batch 7122720 - Volatiles

Blank (7122720-BLK1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0965		mg/kg	0.100		96.5	72-148			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (7122720-BS1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0923		mg/kg	0.100		92.3	72-148			
Benzene	1.80	0.050	mg/kg	2.00		89.9	79.5-124			
Ethylbenzene	1.70	0.050	mg/kg	2.00		85.0	77.7-125			
Toluene	1.76	0.050	mg/kg	2.00		87.8	75.5-127			
Total Xylenes	5.18	0.150	mg/kg	6.00		86.3	70.9-124			

LCS Dup (7122720-BSD1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0938		mg/kg	0.100		93.8	72-148			
Benzene	1.78	0.050	mg/kg	2.00		89.2	79.5-124	0.786	6.5	
Ethylbenzene	1.71	0.050	mg/kg	2.00		85.7	77.7-125	0.775	7.83	
Toluene	1.75	0.050	mg/kg	2.00		87.4	75.5-127	0.390	7.02	
Total Xylenes	5.24	0.150	mg/kg	6.00		87.3	70.9-124	1.11	7.78	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Twtle Mnt 35-1
Project Manager: Amy Archuleta

Reported:
01/05/18 12:39

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7122717 - General Prep - Organics

Blank (7122717-BLK1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.4	34.7-157			
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	28.3-164			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (7122717-BS1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	44.4		mg/kg	50.0		88.9	34.7-157			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	28.3-164			
DRO >C10-C28	188	10.0	mg/kg	200		94.1	81.4-124			
GRO C6-C10	206	10.0	mg/kg	200		103	76.6-119			
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	79.4-121			

LCS Dup (7122717-BSD1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	34.7-157			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
DRO >C10-C28	205	10.0	mg/kg	200		103	81.4-124	8.62	9.83	
GRO C6-C10	223	10.0	mg/kg	200		111	76.6-119	7.68	7.94	
Total TPH C6-C28	428	10.0	mg/kg	400		107	79.4-121	8.13	8.57	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

DJR Operating

#20 CR 5060

Bloomfield NM, 87413

Project: BTEX,TPH,CI

Project Name / Number: Twtle Mnt 35-1

Project Manager: Amy Archuleta

Reported:

01/05/18 12:39

Notes and Definitions

H2 Sample analysis performed past hold time specified by the method.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

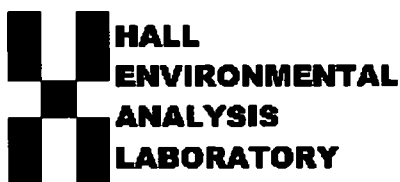
RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 08, 2018

Tami Knight
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Turtle Mountain 35 #1

OrderNo.: 1803219

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1803219

Date Reported: 3/8/2018

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Turtle Mountain 35 #1

Collection Date: 3/5/2018 11:40:00 AM

Lab ID: 1803219-001

Matrix: SOIL

Received Date: 3/6/2018 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/7/2018 10:57:17 AM	36866
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2018 10:57:17 AM	36866
Surr: DNOP	89.8	70-130		%Rec	1	3/7/2018 10:57:17 AM	36866
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/7/2018 2:01:00 PM	36859
Surr: BFB	90.6	15-316		%Rec	1	3/7/2018 2:01:00 PM	36859

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	<ul style="list-style-type: none">* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceededND Not Detected at the Reporting LimitPQL Practical Quantitative LimitS % Recovery outside of range due to dilution or matrix	<ul style="list-style-type: none">B Analyte detected in the associated Method BlankE Value above quantitation rangeJ Analyte detected below quantitation limitsP Sample pH Not In RangeRL Reporting Detection LimitW Sample container temperature is out of limit as specified
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803219

08-Mar-18

Client: Animas Environmental Services

Project: Turtle Mountain 35 #1

Sample ID	LCS-36866	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	36866	RunNo:	49602					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1603693	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			

Sample ID	MB-36866	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	36866	RunNo:	49602					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1603694	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.4	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803219

08-Mar-18

Client: Animas Environmental Services

Project: Turtle Mountain 35 #1

Sample ID	MB-36859	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	36859	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604248	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

ND

5.0

Surr: BFB

920

1000

91.9

15

316

Sample ID	LCS-36859		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	36859		RunNo:	49627				
Prep Date:	3/6/2018		Analysis Date:	3/7/2018		SeqNo:	1604249		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Gasoline Range Organics (GRO)

28

5.0

25.00

0

112

75.9

131

Surr: BFB

1100

1000

108

15

316

Sample ID	MB-36868	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	36868	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604266	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB

930

1000

92.6

15

316

Sample ID	LCS-36868	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	36868	RunNo:	49627					
Prep Date:	3/6/2018	Analysis Date:	3/7/2018	SeqNo:	1604267	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB

1100

1000

107

15

316

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1803219

RcptNo: 1

Received By: Anne Thorne

3/6/2018 8:55:00 AM

Completed By: Isalah Ortiz

3/6/2018 8:00:15 AM

Reviewed By: SRE 03/06/18

labeled By DDS

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (If applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: Animas Environmental Services, LLC	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Turtle Mountain 35 #1

Project #:

Project Manager:
T. Knight

Sampler: CL SJ

[illegible]

Remarks:
per CW collection time is 1140
Please call with any questions AS 03 Jan?

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.