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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nRM2006559088
District RP	
Facility ID	
Application ID	10731

Release Notification

Responsible Party

Responsible Party: DJR Operating, LLC	OGRID: 371838
Contact Name: Larissa Farrell	Contact Telephone: 505-444-0289
Contact email: lfarrell@djrllc.com	Incident # *(assigned by OCD)* nRM2006559088
Contact mailing address: 1 Road 3263, Aztec, NM 87410	

Location of Release Source

Latitude 36.2552 Longitude -107.3671
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Bee Line Pipeline	Site Type: Pipeline
Date Release Discovered: 3/2/2020	API# *(if applicable)* N/A

Unit Letter	Section	Township	Range	County
F	4	23N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 35 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

DJR discovered the pipeline release located on the Bee Line gathering system on March 2, 2020. The cause of the release is unknown at this time. The release has been stopped and clean-up efforts have commenced. Approximately 35 bbls of produced water and oil released, traveled down hill from the pipeline and entered a dry wash in which 30' of the upper portion was impacted.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The amount released was above the minor release thresholds as per 19.15.27.7 NMAC and small amount entered a dry wash.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes, Dave Brown spoke with Cory Smith with OCD on 3/2/2020. Jicarilla Nation representatives were also notified on 3/2/2020.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

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

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

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

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

Printed Name: _Larissa Farrell_____ Title: __Regulatory Specialist _____

Signature: _____ Date: _3/4/2020_____

email: _lfarrell@djrllc.com_____ Telephone: _(505) 444-0289_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141 State of New Mexico
Page 4 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.

Printed Name: __Larissa Farrell_____ Title: _Regulatory Specialist_____

Signature:_____ Date: _6/1/2020_____

email: _lfarrell@djrllc.com_____ Telephone: _505-444-0289_____

OCD Only

Received by: _____ Date: _____

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.

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _Larissa Farrell _____ Title: __Regulatory Specialist_____

Signature: _____ Date: ___6/1/2020_____

email: _lfarrell@djrllc.com_____ Telephone: __505-444-0289_____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 01/28/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

envirotech

April 17, 2020 Project #17035-0188

Ms. Larissa Farrell
DJR Operating, LLC.
1 Road 3263 Phone: (505) 444-0289
Aztec, New Mexico 87410 E-mail: lfarrell@djrllc.com

RE: Spill Assessment and Closure Report for the B Loop Pipeline located in Section 4, Township 23N, Range 5 W Rio Arriba County, New Mexico

Dear Ms. Farrell,

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was retained by DJR Operating, LLC. (DJR) on March 2, 2020, to provide spill assessment and closure activities for a crude oil release that occurred at the B Loop Pipeline located in Section 4, Township 23N, Range 5W, Rio Arriba County, New Mexico. The release was located at Latitude: 36.25532, Longitude: -107.36718; see enclosed **Figure 1, *Vicinity Map***.

SPILL ASSESSMENT ACTIVITIES

Envirotech personnel arrived on site on March 3, 2020 to perform spill assessment activities. The cause of the release was determined to be from a hole in the pipeline. The crude oil that was released traveled approximately 258 feet along a natural erosion and entered and unnamed ephemeral wash. DJR contracted roustabout personnel were excavating the petroleum contaminated soil (PCS) along the release path utilizing hand shovels and transferring the material with wheel barrels to a centralized staging area near the access road. The roustabout crew excavated the PCS to the point of manual excavation refusal due to encountering a competent sandstone base. The sandstone surfaces that exhibited petroleum staining were remediated with Simple Green® and scrub brushes. Site assessment activities are documented in the enclosed ***Photography Log***.

POTASSIUM PERMANGANATE APPLICATION

Envirotech personnel returned to the site on March 5, 2020 to perform potassium permanganate application activities. A potassium permanganate solution was applied to the completed excavation and spill path to aid with in-situ remediation of the residual petroleum hydrocarbons on the sandstone surfaces. Subsequent to the application of the potassium permanganate solution, roustabout personnel backfilled the excavation with clean backfill and re-contoured the area to

match pre-existing conditions. Potassium permanganate application and backfilling activities are documented in the attached ***Site Photography***.

SOIL SAMPLE FIELD SCREENING

Envirotech personnel returned to the site on March 6, 2020 to perform soil field screening activities. Field screening for volatile organic compounds (VOCs) was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Prior to performing field screening activites, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas. Soil samples were also screened in the field for total petroleum hydrocarbons (TPH) per U.S. 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 activities. Field analytical protocol followed the manufacture's operating procedure. Field screening results are documented in the enclosed ***Field Notes***.

CONFIRMATION SAMPLE COLLECTION AND ANALYSIS

Envirotech personnel returned to the site on March 9, 2020 to perform confirmation sampling activities. Prior to Envirotech's arrival the roustabout crew excavated the pipeline to the extents of approximately 30 feet by 12 feet by 5 feet below ground surface (bgs). Upon arrival, six (6) composite samples were collected from the excavation and three (3) samples were collected from the spill path. DJR representative Larissa Farrell and Jicarilla Oil and Gas Administration (JOGA) representative Keith Manwell were on-site to witness sampling. Sample locations are illustrated on the enclosed **Figure 2, *Site Map***. The samples were placed into individual laboratory provided 4-ounce glass jars, capped head space free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory for total petroleum hydrocarbons (TPH) including diesel range organics, gasoline range organics, and oil range organics (DRO/GRO/ORO) per United States Environmental Protection Agency (EPA) Method 8015D; benzene, toluene, ethylbenzene, and total xylenes (BTEX) per EPA Method 8021B; and chlorides per EPA Method 300.0.

Laboratory Analytical Results

Due to the release reaching an ephemeral wash that is a tributary of the Largo Canyon, the following 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 - 600 mg/kg
- TPH (GRO+DRO+ORO) - 100 mg/kg
- BTEX - 50 mg/kg
- Benzene - 10 mg/kg

envirotech

All soil samples collected for laboratory analysis returned results below the laboratory detection limits for TPH, BTEX, and chlorides. Analytical results are summarized in **Table 1, *Summary of Soil Analytical Results*** and ***Laboratory Analytical Results.***

SUMMARY AND CONCLUSIONS

On March 5, 2020, Envirotech performed the application of a potassium permanganate solution to petroleum impacted soil and sandstone remaining within proximity to the pipeline and along the spill path. The treated residual hydrocarbons are not believed to be a threat to human health or the environment. On March 9, 2020, Envirotech personnel completed confirmation soil sampling for the release excavation at the site.

Based on the final laboratory analytical results of the excavation at the site, GRO, DRO, ORO, BTEX, and chlorides were below the applicable NMOCD and JOGA Closure Criteria for Soils Impacted by a Release. Envirotech recommends requesting a **No Further Action** status 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 if you need additional information, please contact our office at (505) 632-0615.

Sincerely,

ENVIROTECH INC.

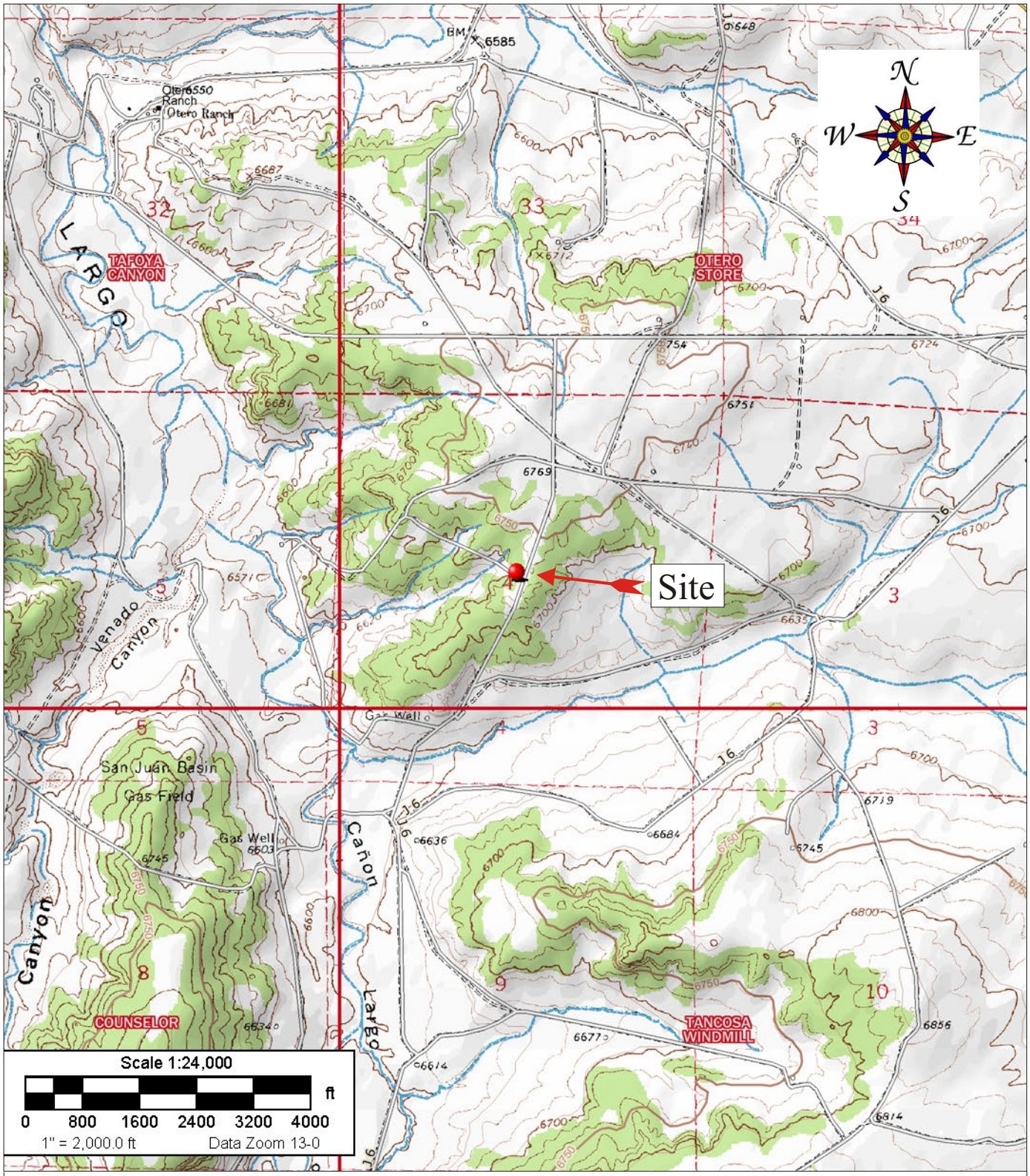
Brittany Hall

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

envirotech

Enclosures: Figure 1, *Vicinity Map*
Figure 2, *Site Map*
Photography Log
Field Notes
Table 1, *Summary of Soil Analytical Results*
Laboratory Analytical Results

Cc: Client File 17035



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

DJR Operating, LLC. Spill Assessment and Closure Report B-Loop Pipeline Section 4, Township 23N, Range 5W Rio Arriba County, New Mexico Incident Number nRM2006559088	envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	Vicinity Map Figure #1	
Project Number: 17035-0188 / Date Drawn: 4/3/2020		DRAWN BY: Brittany Hall	PROJECT MANAGER: Felipe Aragon

Legend

- -North Wall
- -North East Wall
- -North West Wall
- -South West Wall
- -South East Wall
- -North Drainage
- -South Drainage
- -End of Release
- -Area of Potassium Permanganate Application

envirotech

505-632-0615

MAP DRAWN BY: IDG 4/3/2020

REVISIONS BY: BAH 4/14/2020

APPROVED BY: FRA 4/14/2020

Scale 1" = 60'

0 15 30 60

Figure 2, Site Map

DJR Operating, LLC.
B Loop Release
Release Closure Report
Section 4, Township 23N, Range 5W
36.2553, -107.3672
Rio Arriba County, New Mexico
Project #17035-0188

SITE PHOTOGRAPHY
SPILL ASSESSMENT AND CLOSURE REPORT
DJR OPERATING, LLC.
B-LOOP PIPELINE
PROJECT #17035-0188
MARCH 3, 2020

March 3, 2020

Picture 1: View of Source

Picture 2: View of Impacted Area (View 1)

SITE PHOTOGRAPHY
SPILL ASSESSMENT AND CLOSURE REPORT
DJR OPERATING, LLC.
B-LOOP PIPELINE
PROJECT #17035-0188
MARCH 3, 2020

Picture 3: View of Impacted Area (View 2)

Picture 4: View of Impacted Area (View 3)

SITE PHOTOGRAPHY
SPILL ASSESSMENT AND CLOSURE REPORT
DJR OPERATING, LLC.
B-LOOP PIPELINE
PROJECT #17035-0188
MARCH 3, 2020

Picture 5: View of Terminal of Release

March 5, 2020

Picture 6: View of Potassium Permanganate Application (View 1)

SITE PHOTOGRAPHY
SPILL ASSESSMENT AND CLOSURE REPORT
DJR OPERATING, LLC.
B-LOOP PIPELINE
PROJECT #17035-0188
MARCH 3, 2020

Picture 7: View of Potassium Permanganate Application (View 2)

Picture 8: View of Potassium Permanganate Application (View 2)

SITE PHOTOGRAPHY
SPILL ASSESSMENT AND CLOSURE REPORT
DJR OPERATING, LLC.
B-LOOP PIPELINE
PROJECT #17035-0188
MARCH 3, 2020

Picture 9: View of Backfilled Area (View 1)

Picture 10: View of Backfilled Area (View 2)

CLIENT: [illegible]

CLIENT/JOB #: 17035-0198

START DATE: 3/6/20

FINISH DATE: 3/6/20

Page # 2 of 2

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Envmtl. Spclst:

C.O.C. No:

LAT 36.2553

LONG -107.3672

Field Report: Spill Closure Verification

NMOCD Ranking: —

Depth to GW: —

WH Protection Area: No / Yes

NMOCD TPH Closure Std.:

Distance to SW: —

LOCATION: Name: B- 100P Well #: N/A API: N/A

County: Rio Arriba State: New Mexico

Cause of Release: pipeline leak Material Released: crude oil Amt. Released: unknown

QUAD/UNIT: SEC: 4 TWP: 23N RNG: 5W PM:

Wellhead Lat/Long: Land Jurisdiction: QTR Footage: ~~[illegible]~~ OC

Spill Located Approximately: 259 FT. FROM pipline release to end

Excavation Approx: 259 FT. X 2-6 FT. wide X 3inch - 6 FT. deep Cubic Yardage: unknown

Disposal Facility: Remediaton Method: landfarm/potassium permanganate

Land Use: range land Lease: Land Owner: Jicarilla

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
250 standard		X	5	20	4	258	
surface 1		X 1	5	20	4	827	3308
surface 2		X 2	5	20	4	1216	4864
surface 3		X 3	5	20	4	1340	5360
surface 4		X 4	5	20	4	391	1564
surface 5		5	5	20	4	133	532
surface 6		6	5	20	4	290	1160
surface 7		7	5	20	4	843	3372

OVM Results

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)

Lab Testing

Sample ID	Analysis Type	Time

4/9/2020

CLIENT: [illegible]

CLIENT/JOB #: 17075-0188

START DATE: 3/6/20

FINISH DATE: 3/6/20

Page # 1 of 2

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Envmtl. Spclst: [illegible]

C.O.C. No:

LAT 36.2593

LONG -107.3672

Field Report: Spill Closure Verification

NMOCD Ranking: —

Depth to GW: —

WH Protection Area: No / Yes

NMOCD TPH Closure Std.:

Distance to SW: —

LOCATION: Name: B-100P Well #: — API: N/A

County: Rio Arriba State: New Mexico

Cause of Release: pipeline leak Material Released: crude oil Amt. Released: unknown

QUAD/UNIT: _____ SEC: 4 TWP: 23N RNG: 5W PM: _____

Wellhead Lat/Long: — Land Jurisdiction: QTR Footage:

Spill Located Approximately: 259 FT. FROM pipeline release to end

Excavation Approx: 259 FT. X 2-6 FT. wide X 3 inch - 6 FT. deep Cubic Yardage: unknown

Disposal Facility: unknown Remediaton Method: landfarm/ potassium permanganate

Land Use: range land Lease: Land Owner: J. Carrillo

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
west wall 1		1	5	20	4	514	2056
west wall 2		2	5	20	4	78	312
west wall 3		3	5	20	4	87	348
west wall 4		4	5	20	4	73	292
west wall 5		5	5	20	4	69	276
East wall 1		6	5	20	4	151	604
East wall 2		7	5	20	4	441	1764
East wall 3		8	5	20	4	63	252
East wall 4		9	5	20	4	84	336
East wall 5		10	5	20	4	61	244

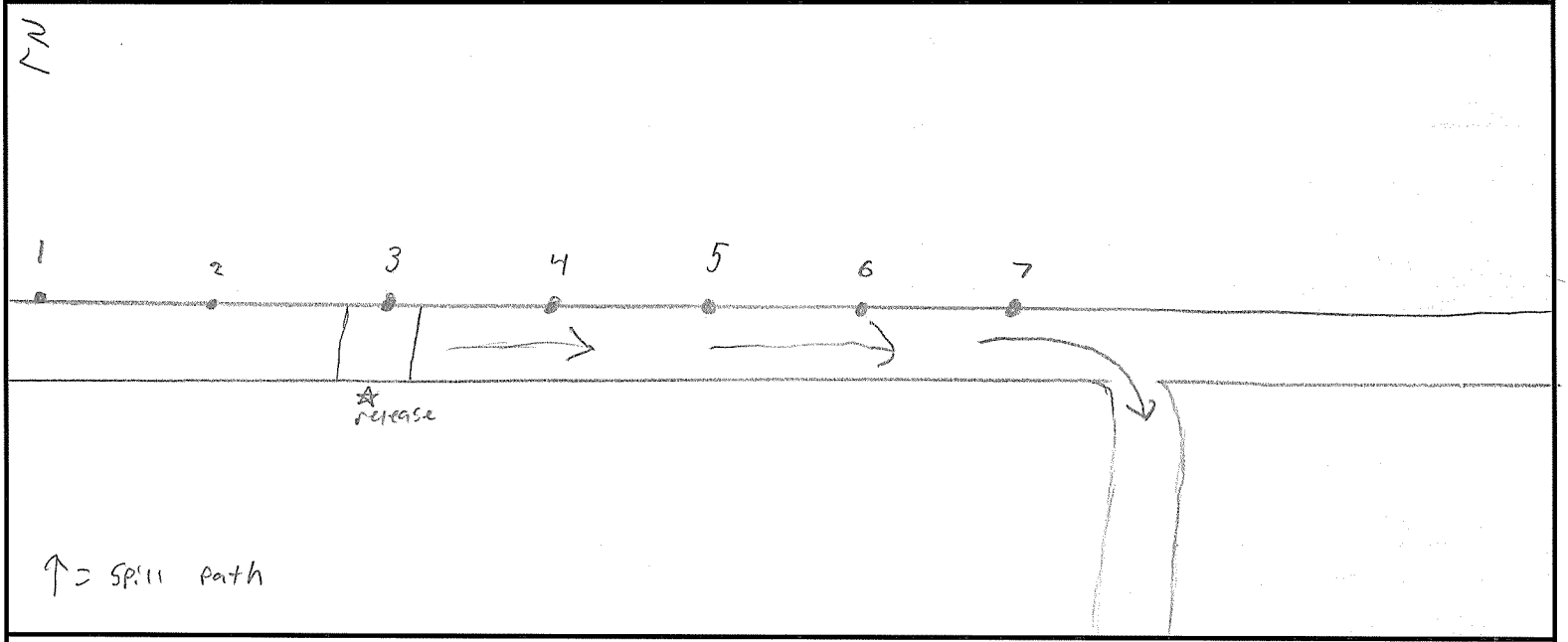
Ci ~~OVM~~ Results

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)
6	31		
10	ND		
1	512		
5	ND		

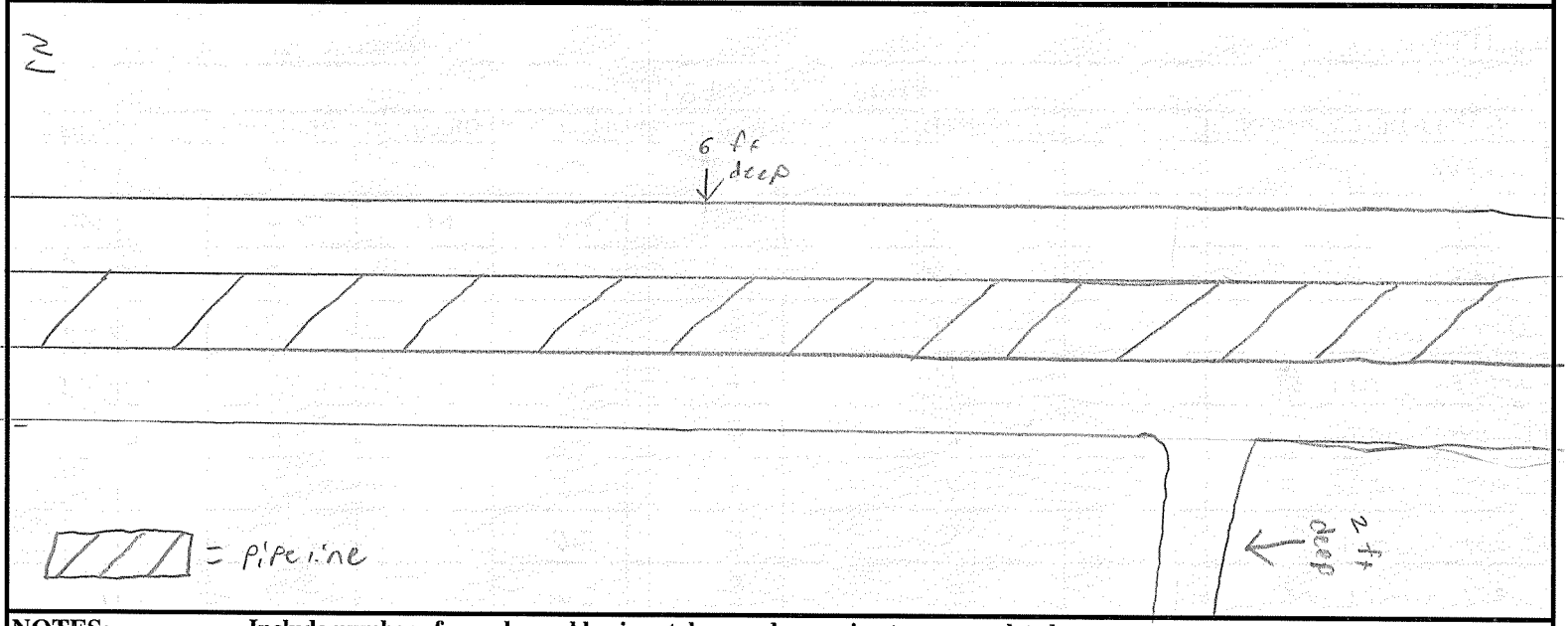
Lab Testing

Sample ID	Analysis Type	Time

SPILL PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*



EXCAVATION PROFILE:



NOTES: **Include number of samples and borings taken, and screening types completed.**
Describe spill in narrative format including amount, source and type of product.

WO #: **Who Ordered/Site Rep:**

CLIENT:	DSR Products	**Envmtl. Spclst:**	
CLIENT/JOB #:	17035-0188	**C.O.C. No:**	
START DATE:	3-9-2020	**LAT**	
FINISH DATE:	3-9-2020	**LONG**	
Page #	1 of 1		

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Field Report: Spill Closure Verification

NMOCD Ranking: _____ **Depth to GW:** _____ **WH Protection Area:** No / Yes

NMOCD TPH Closure Std.: **Distance to SW:**

LOCATION: Name: B-Loop Pipeline Release Well #: API:

County: Rio Arriba State:

Cause of Release: Material Released: Amt. Released:

QUAD/UNIT: SEC: 4 TWP: 23N RNG: 5W PM:

Wellhead Lat/Long: Land Jurisdiction: QTR Footage:

Spill Located Approximately: _____ FT. FROM

Excavation Approx: _____ FT. X _____ FT. X _____ FT. Cubic Yardage:

Disposal Facility: Remediaton Method:

Land Use: Lease: Land Owner:

500 STD 525.

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
North Wall		1	5	20	4	7	28
NE Wall		2				8	32
NW Wall		3				12	48
SW Wall		4				3	12
North Wall *		5				14	56
SE Wall		6				7	28
North Drainage		7				8	32
South Drainage		8				72	288
South Drainage		9				00	00

OVM Results

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)
North Wall	49.6	End of Release	5.4
NE Wall	1.8		
NW Wall	1.3		
SW Wall	1.6		
SE Wall	2.1		
North Drainage	2.5		
South Drainage	13.0		
South Drainage	0.3		

Lab Testing

Sample ID	Analysis Type	Time
South Drainage		

envirotech

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 6-Mar-20

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	258
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Buttany Hall for — 9/17/2019

Analyst — Date

Damon Carter

Print Name

9/17/2019

Review — Date

Felipe Aragon, CES, CHMM

Print Name

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	1	Date Reported:	9/17/2019
Sample ID:	Surface 1	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,310**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	2	Date Reported:	9/17/2019
Sample ID:	Surface 2	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,870**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	3	Date Reported:	9/17/2019
Sample ID:	Surface 3	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**5,360**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	4	Date Reported:	9/17/2019
Sample ID:	Surface 4	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,560**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	5	Date Reported:	9/17/2019
Sample ID:	Surface 5	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**532**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Buttany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	6	Date Reported:	9/17/2019
Sample ID:	Surface 6	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,160**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	7	Date Reported:	9/17/2019
Sample ID:	Surface 7	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,370**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	8	Date Reported:	9/17/2019
Sample ID:	West Wall 1	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,060**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	9	Date Reported:	9/17/2019
Sample ID:	West Wall 2	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**312**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	10	Date Reported:	9/17/2019
Sample ID:	West Wall 3	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**348**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	11	Date Reported:	9/17/2019
Sample ID:	West Wall 4	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**292**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	12	Date Reported:	9/17/2019
Sample ID:	West Wall 5	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**276**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Buttany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	13	Date Reported:	9/17/2019
Sample ID:	East Wall 1	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**604**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	14	Date Reported:	9/17/2019
Sample ID:	East Wall 2	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,760**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	15	Date Reported:	9/17/2019
Sample ID:	East Wall 3	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**252**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	16	Date Reported:	9/17/2019
Sample ID:	East Wall 4	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**336**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Damon Carter
Printed

Review

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	17	Date Reported:	9/17/2019
Sample ID:	East Wall 5	Date Sampled:	3/6/2020
Sample Matrix:	Soil	Date Analyzed:	3/6/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**244**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Damon Carter
Printed

Felipe Aragon, CES, CHMM
Printed

envirotech

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Cal. Date: 9-Mar-20

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	
	500	525
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Buttany Hall for 4/15/2020

Analyst Date

Clay Green

Print Name

4/15/2020

Review Date

Felipe Aragon CES,CHMM

Print Name

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	1	Date Reported:	4/15/2020
Sample ID:	North Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**28**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	2	Date Reported:	4/15/2020
Sample ID:	NE Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**32**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	3	Date Reported:	4/15/2020
Sample ID:	NW Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**48**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	4	Date Reported:	4/15/2020
Sample ID:	SW Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Clay Green
Printed

Felipe Aragon CES,CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	5	Date Reported:	4/15/2020
Sample ID:	North Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**56**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	6	Date Reported:	4/15/2020
Sample ID:	SE Wall	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**28**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for
Analyst

Review

Clay Green
Printed

Felipe Aragon CES,CHMM
Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	7	Date Reported:	4/15/2020
Sample ID:	North Drainage	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**32**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	8	Date Reported:	4/15/2020
Sample ID:	South Drainage	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**288**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	DJR Operating	Project #:	17035-0188
Sample No.:	9	Date Reported:	4/15/2020
Sample ID:	South Drainage	Date Sampled:	3/9/2020
Sample Matrix:	Soil	Date Analyzed:	3/9/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**ND**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B-Loop Release**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Brittany Hall for

Analyst

Review

Clay Green

Printed

Felipe Aragon CES,CHMM

Printed

Table 1, Summary of Soil Analytical Results
DJR Operating, LLC.
B-Loop Pipeline
Spill Assessment and Closure Report
Rio Arriba County, New Mexico
Project #17035-0188

Sample Description*	Date	USEPA Method 8015			USEPA Method 8021		USEPA Method 300.0
		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 Release [Table 1 -19.15.29.12 (E) NMAC]		*100 mg/Kg*			*10 mg/Kg*	*50 mg/Kg*	*600 mg/Kg*
North Wall	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	276
North East Wall	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
North West Wall	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	292
South West Wall	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
South East Wall	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
North Wall Drainage	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
South Wall Drainage	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0
End of Release	3/9/2020	<20.0	<25.0	<50.0	<0.025	<0.100	<20.0

*5-point composite soil samples

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: DJR Operating, LLC

Samples Received: 3/10/2020
Job Number: 17035-0188
Work Order: P003049
Project Name/Location: B Loop Release

Report Reviewed By: _____ Date: 3/12/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

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.

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Wall	P003049-01A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-01B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
North East Wall	P003049-02A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-02B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
North West Wall	P003049-03A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-03B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
South West Wall	P003049-04A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-04B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
South East Wall	P003049-05A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-05B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
North Wall Drainage	P003049-06A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-06B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
South Wall Drainage	P003049-07A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-07B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
End of Release	P003049-08A	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.
	P003049-08B	Soil	03/09/20	03/10/20	Glass Jar, 4 oz.

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

North Wall
P003049-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*85.7 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**276**	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

North East Wall
P003049-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*87.0 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

North West Wall
P003049-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*90.6 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*		*50-150*	*2011019*	*03/11/20*	*03/11/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**292**	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

South West Wall
P003049-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*110 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*87.3 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

South East Wall
P003049-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*89.1 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

North Wall Drainage

P003049-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*90.9 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

South Wall Drainage

P003049-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*88.3 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

End of Release
P003049-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		*89.1 %*		*50-200*	*2011025*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*		*50-150*	*2011019*	*03/11/20*	*03/12/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

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 2011019 - Purge and Trap EPA 5030A										
Blank (2011019-BLK1)				Prepared: 03/11/20 0 Analyzed: 03/11/20 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	*8.47*		*"*	*8.00*		*106*	*50-150*			
LCS (2011019-BS1)				Prepared: 03/11/20 0 Analyzed: 03/11/20 1						
Benzene	4.63	0.0250	mg/kg	5.00		92.5	70-130			
Toluene	4.86	0.0250	"	5.00		97.1	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.98	0.0250	"	5.00		99.5	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.8	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.60*		*"*	*8.00*		*107*	*50-150*			
Matrix Spike (2011019-MS1)		**Source: P003049-01**		Prepared: 03/11/20 0 Analyzed: 03/11/20 2						
Benzene	4.47	0.0250	mg/kg	5.00	ND	89.4	54.3-133			
Toluene	4.70	0.0250	"	5.00	ND	94.1	61.4-130			
Ethylbenzene	4.79	0.0250	"	5.00	ND	95.8	61.4-133			
p,m-Xylene	9.55	0.0500	"	10.0	ND	95.5	63.3-131			
o-Xylene	4.83	0.0250	"	5.00	ND	96.6	63.3-131			
Total Xylenes	14.4	0.0250	"	15.0	ND	95.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.73*		*"*	*8.00*		*109*	*50-150*			
Matrix Spike Dup (2011019-MSD1)		**Source: P003049-01**		Prepared: 03/11/20 0 Analyzed: 03/11/20 2						
Benzene	4.49	0.0250	mg/kg	5.00	ND	89.8	54.3-133	0.446	20	
Toluene	4.74	0.0250	"	5.00	ND	94.8	61.4-130	0.723	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	96.9	61.4-133	1.12	20	
p,m-Xylene	9.66	0.0500	"	10.0	ND	96.6	63.3-131	1.14	20	
o-Xylene	4.90	0.0250	"	5.00	ND	98.0	63.3-131	1.44	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.1	0-200	1.24	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.88*		*"*	*8.00*		*111*	*50-150*			

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011025 - DRO Extraction EPA 3570										
Blank (2011025-BLK1)				Prepared: 03/11/20 1 Analyzed: 03/11/20 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*45.2*		*"*	*50.0*		*90.5*	*50-200*			
LCS (2011025-BS1)				Prepared: 03/11/20 1 Analyzed: 03/11/20 2						
Diesel Range Organics (C10-C28)	408	25.0	mg/kg	500		81.5	38-132			
Surrogate: n-Nonane	*44.3*		*"*	*50.0*		*88.5*	*50-200*			
Matrix Spike (2011025-MS1)		**Source: P003048-01**		Prepared: 03/11/20 1 Analyzed: 03/12/20 0						
Diesel Range Organics (C10-C28)	407	25.0	mg/kg	500	ND	81.4	38-132			
Surrogate: n-Nonane	*46.0*		*"*	*50.0*		*92.0*	*50-200*			
Matrix Spike Dup (2011025-MSD1)		**Source: P003048-01**		Prepared: 03/11/20 1 Analyzed: 03/12/20 0						
Diesel Range Organics (C10-C28)	426	25.0	mg/kg	500	ND	85.2	38-132	4.50	20	
Surrogate: n-Nonane	*45.6*		*"*	*50.0*		*91.2*	*50-200*			

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011019 - Purge and Trap EPA 5030A										
Blank (2011019-BLK1)				Prepared: 03/11/20 0 Analyzed: 03/11/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.54*		*"*	*8.00*		*94.2*	*50-150*			
LCS (2011019-BS2)				Prepared: 03/11/20 0 Analyzed: 03/11/20 2						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.55*		*"*	*8.00*		*94.4*	*50-150*			
Matrix Spike (2011019-MS2)		**Source: P003049-01**		Prepared: 03/11/20 0 Analyzed: 03/11/20 2						
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*"*	*8.00*		*93.5*	*50-150*			
Matrix Spike Dup (2011019-MSD2)		**Source: P003049-01**		Prepared: 03/11/20 0 Analyzed: 03/11/20 2						
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.8	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*"*	*8.00*		*91.2*	*50-150*			

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

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
Batch 2011024 - Anion Extraction EPA 300.0/9056A										
Blank (2011024-BLK1)				Prepared & Analyzed: 03/11/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2011024-BS1)				Prepared & Analyzed: 03/11/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2011024-MS1)		**Source: P003054-01**		Prepared & Analyzed: 03/11/20 1						
Chloride	308	20.0	mg/kg	250	49.9	103	80-120			
Matrix Spike Dup (2011024-MSD1)		**Source: P003054-01**		Prepared & Analyzed: 03/11/20 1						
Chloride	309	20.0	mg/kg	250	49.9	104	80-120	0.357	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	B Loop Release	
1 Rd 3263	Project Number:	17035-0188	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	03/12/20 15:31

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.

Project Information | Chain of Custody | Page 1 of

Client: DJR Production	**Report Attention**	Lab Use Only	TAT / EPA Program
Project: B Loop Release	Report due by:	Lab WO# P003049	Job Number 17035-0188
Project Manager: Felipe Aragon	Attention:		1D 3D RCRA CWA SDW
Address:	Address:		
City, State, Zip	City, State, Zip:		
Phone:	Phone:		
Email: Gcrabtree, FAragon, Cgreen, Bhall, IGarcia BH	Email:		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	8015 +ORO	8021	Cl-	Analysis and Method	State NM	CO	UT	AZ	Remarks
1337	3/9/2020	S	2	North Wall	1	X	X	X		X				
1342	3/10/2020 BH	S	2	North East Wall	2	X	X	X						
1307	3/11/2020 BH	S	2	North West Wall	3	X	X	X						
1305	3/12/2020 BH	S	2	South West Wall	4	X	X	X						
1309	3/13/2020 BH	S	2	South East Wall	5	X	X	X						
1302	3/14/2020 BH	S	2	North Wall Drainage	6	X	X	X						
1509	3/15/2020 BH	S	2	South Wall Drainage	7	X	X	X						
1315	3/16/2020 BH	S	2	End of Release	8	X	X	X						

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: IG/CG

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brittney Hall	3/10/2020	1305	Raun Lopez	3/10/20	13:05
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

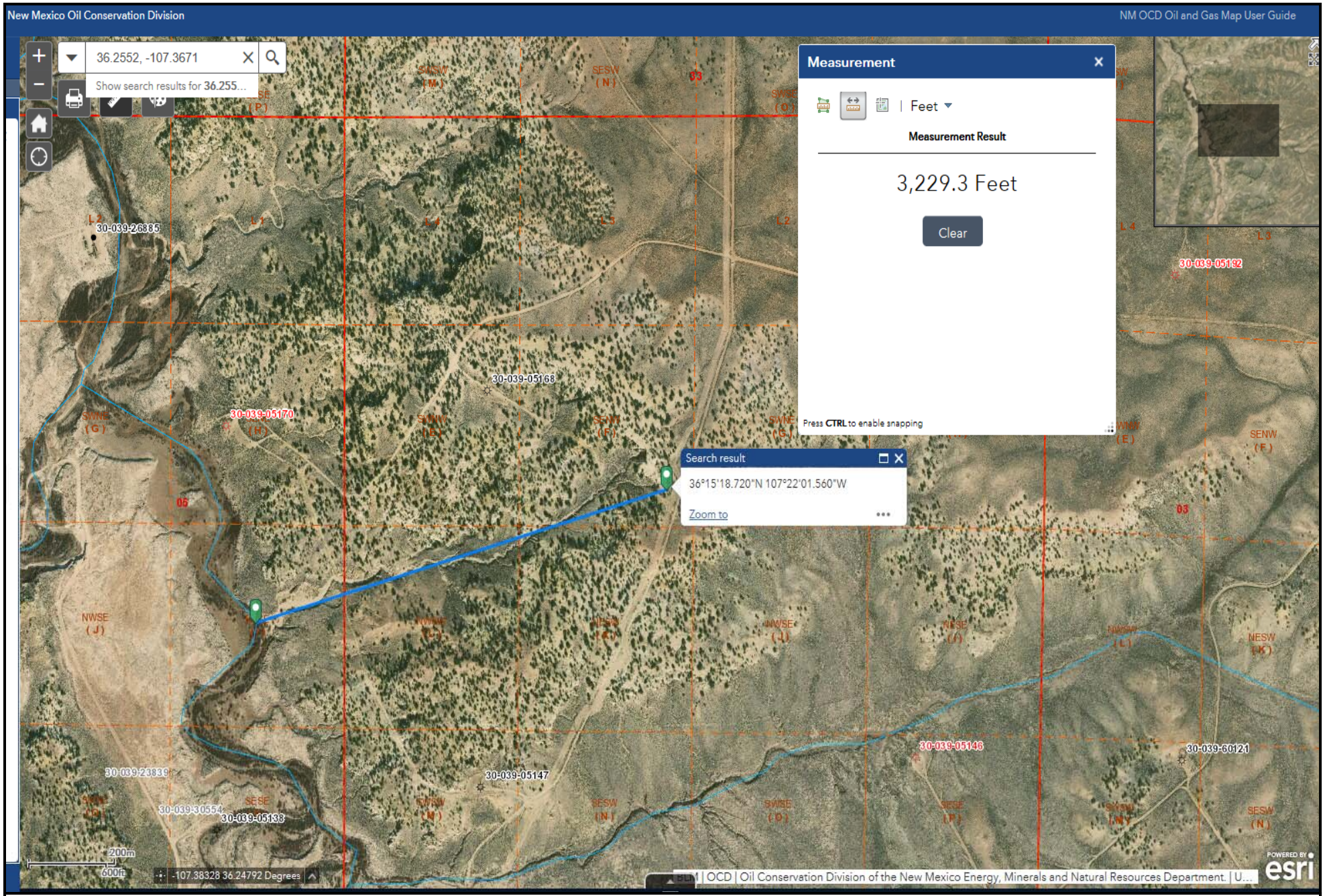
Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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.

envirotech Analytical Laboratory
5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879
Ph (505) 632-0615 Fx (505) 632-1865
envirotech-inc.com
labadmin@envirotech-inc.com



B Loop Pipeline
UL-F, Section 4, T23N, R05W
36.2552, -107.3671
Distance to Surface Water 3229.3’

DJR Energy

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): 5, 4, 3, 10, 9, 8 **Township:** 23N **Range:** 05W

6/2/20 12:08 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Larissa Farrell

From: Dave Brown
Sent: Friday, March 6, 2020 6:11 PM
To: Larissa Farrell
Subject: FW: Bee Line Pipeline Leak
Attachments: image001.png

Larissa:

FYI.

Regards,
Dave Brown
Manager of Government and Regulatory Affairs
303-887-3695
505-419-9931
DBrown@djrllc.com

From: Hobson Sandoval <hsandoval2012@gmail.com>
Sent: Wednesday, March 4, 2020 7:21 PM
To: Dave Brown <DBrown@djrllc.com>
Cc: Jason Sandoval <jasonsandoval@jicarillaoga.com>; Sabrina Sullivan <ssullivan@djrllc.com>; Richard Graves <rgraves@djrllc.com>; Cordell Tecube <cltecube@yahoo.com>
Subject: Re: Bee Line Pipeline Leak

That is correct. That is what we discussed. Usually, when a company is excavating the contaminated soil and hit bed rock, that is the extent of the excavation. Nothing to be gained by excavating further. Then, potassium permanganato is sprayed and back filled with clean clay soil. The bedrock will show purple stain, but the color disappears.

DJR and Jason Sandoval are to be congratulated for a good job in remediating this spill.

On Wed, Mar 4, 2020, 6:58 PM Dave Brown <DBrown@djrllc.com> wrote:

> Hobson and Jason:
>
> Confirming a conversation with Hobson this afternoon, once excavation is completed on soil areas where the oil accumulated (which I believe was today), the plan is to have Envirotech arrive on-site tomorrow to apply potassium permanganate in the excavated areas. Following the application, as in the past, the excavations would be backfilled. Please confirm if this is the preferred course of action for tomorrow.
>
> Regarding the area which was excavated to repair the pipe, confirmation samples will need to be taken, but I will have to confirm whether NMOCD will require 48 hours' notice per their requirements.

Regards,

Dave Brown

Manager of Government and Regulatory Affairs

303-887-3695

505-419-9931

DBrown@djrllc.com

Larissa Farrell

From: Dave Brown
Sent: Thursday, March 5, 2020 7:27 AM
To: Smith, Cory, EMNRD
Cc: Larissa Farrell
Subject: 48 Hour Notice-Bee Line Pipeline Leak

Cory:

Please accept this note as 48 hour notice to collect confirmation samples for the excavated area around the Bee Line pipeline leak which was reported earlier this week. The spill occurred in the SE/4 NW/4 (F) Section 4-T23N-R5W; Lat. 36.2552 Long -107.3671; Rio Arriba County. The surface owner is the Jicarilla Nation

Regards,

Dave Brown
Manager of Government and Regulatory Affairs
303-887-3695
505-419-9931
DBrown@djrllc.com
DJR Energy

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 10731

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 10731
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/28/2022