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	nAB1513441350
District RP	2RP-2999
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy, Inc.	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.34644 Longitude 103.83291
(NAD 83 in decimal degrees to 5 decimal places)

Site Name JRU-106H Flow line	Site Type Exploration and Production
Date Release Discovered 5/3/2015	API# *(if applicable)* 30-015-37063

Unit Letter	Section	Township	Range	County
J	36	22S	30E	Eddy

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) 24	Volume Recovered (bbls) 20
☐ Produced Water	Volume Released (bbls)	Volume Recovered (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: The flow line developed a leak due to corrosion, a temporary leak clamp was placed on the affected area until the well could be shut down and a joint of pipe replaced. The spill impacted approximately 1,020 sq.ft. of pasture. All of the free-standing fluid was picked up with a vacuum truck.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAB1513441350
District RP	2RP-2999
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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

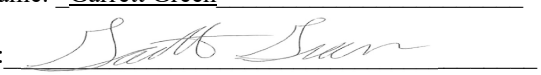
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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: Garrett Green Title: SSHE Coordinator

Signature:  Date: 5/19/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1513441350
District RP	2RP-2999
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
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAB1513441350
District RP	2RP-2999
Facility ID	
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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: Garrett Green Title: SSHE Coordinator

Signature: Date: 5/19/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon Date: 05/24/2023

Incident ID	nAB1513441350
District RP	2RP-2999
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: Garrett Green Title: SSHE Coordinator

Signature: Date: 5/19/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon Date: 05/24/2023

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: Brittany Hall Date: 10/30/2023

Printed Name: Brittany Hall Title: Environmental Specialist

LT Environmental, Inc.
3300 North A Street, Building 1, #103
Midland, Texas 79705
T 432.704.5178 / F 432.704.5179

March 16, 2018

Ms. Crystal Weaver
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Closure Request
JRU-106H Flow Line
2RP-2999
Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO) is pleased to present the following letter report detailing the collection of soil samples at the JRU-106H flow line (Site) in Section 36 of Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the investigation was to assess impact to soil after corrosion to a flow line caused a release on May 3, 2015. The spill impacted approximately 1,020 square feet of pasture, and free-standing liquid was removed with a vacuum truck. A temporary leak clamp was placed on the affected flow line until the well could be shut down. The former operator of the well reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on May 3, 2015, and was assigned Remediation Permit Number (RP) 2RP-2999 (Attachment 1). Although the impact occurred while the well was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. The sampling was conducted in response to the conditions of approval from the NMOCD documented on the Form C-141 dated May 14, 2015. Based on the results of this sampling event as described herein, XTO is requesting no further action for this release.

BACKGROUND

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is C 02492, located approximately 1.93 miles southeast of the Site, with a total depth of 400 feet. Depth to groundwater is listed for C 02492 as 125 feet. The groundwater potentiometric map used by NMOCD for Eddy County indicates groundwater is greater than 100 feet deep at the Site. The closest surface water to the Site is an intermittent stream located approximately 1.13 miles southwest of the Site. Based on these criteria, the NMOCD site ranking for remediation action levels is 0, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on depth to groundwater being greater than 100 feet, LTE proposes a site-specific chloride action level of 600 mg/kg or within a range (plus or minus 10 percent [%]) of the background concentrations.

SOIL SAMPLING

Soil sample locations were based on visual inspection of the site and the Form C141 information. Based on the latitude and longitude provided for the flowline release location, description of the affected area, and photographs made immediately following the release, LTE determined the release occurred along the access

road east of the saltwater disposal pumps on the adjacent well pad. LTE collected six soil samples from six locations on December 20, 2017, as depicted on Figure 2. No visual or olfactory evidence of the release was observed. LTE made an effort to collect representative samples around the reported point source and at any potential downgradient surface areas as identified by topographic slope and/or evidence of surface flow features (channels, depressions, or other erosional features).

To eliminate effects from weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each location at roughly 0.5 feet bgs by hand auger. The soil samples were collected directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures via FedEx to ESC Lab Sciences in Mount Lebanon, Tennessee, for analysis of BTEX and TPH-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8021, chloride by method USEPA Method 300.0, and TPH-diesel range organics (DRO) and motor oil range organics (MRO) by USEPA Method 8015.

ANALYTICAL RESULTS

Laboratory analytical results for all soil samples indicated BTEX concentrations were below laboratory detection. The detected laboratory analytical results for TPH and chloride concentrations were all below the NMOCD regulatory standards. The laboratory analytical results are presented in Table 1 and Figure 2, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results of soil samples collected within the release footprint indicate impact to soil, as defined by concentrations of BTEX, TPH, and chloride, do not exceed NMOCD site-specific standards. Initial response efforts and natural degradation have remediated this release and XTO request no further action at this Site.

LTE appreciates the opportunity to provide this report to XTO. If you have any questions or comments, do not hesitate to contact Adrian Baker at (432) 887-1255 or abaker@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Adrian Baker
Project Geologist

Ashley L. Ager, M.S., P.G.
Senior Geologist

Attachments:

Figure 1	Site Location Map
Figure 2	Site Sample Locations
Table 1	Soil Analytical Results: Volatile Organic Compounds
Attachment 1	Initial NMOCD Form C-141
Attachment 2	Laboratory Analytical Reports

FIGURES

Advancing Opportunity

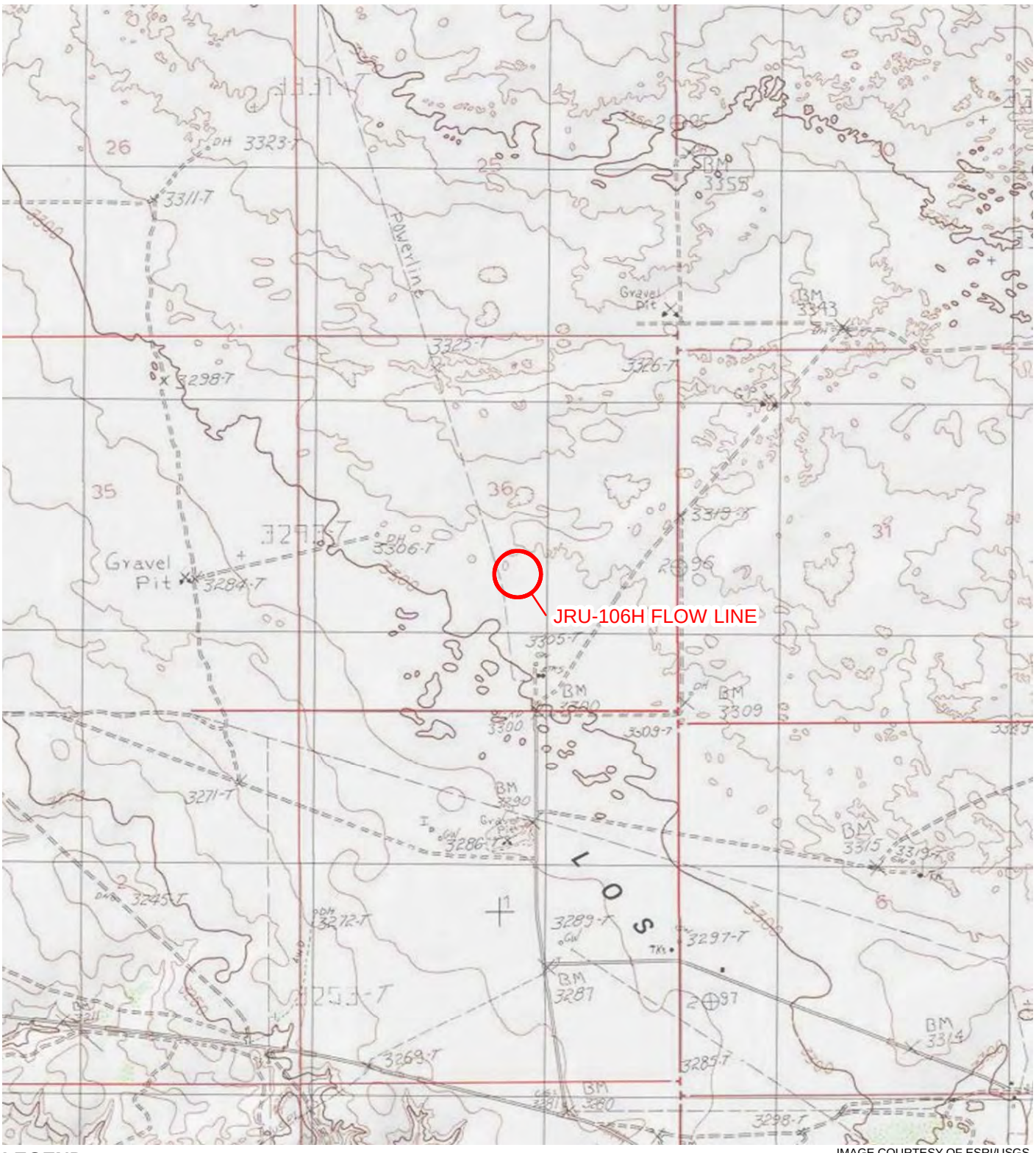


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

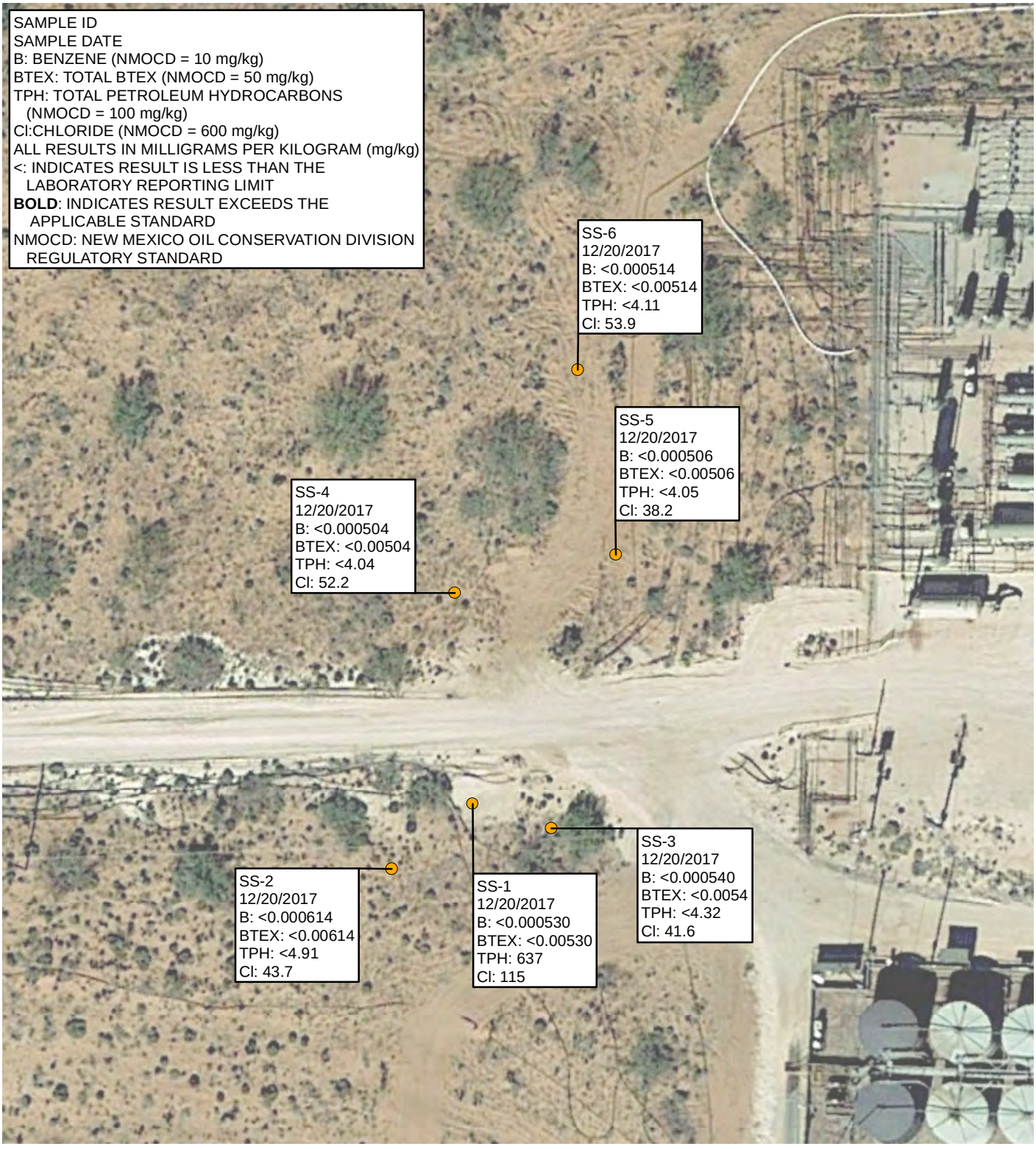
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
JRU-106H FLOW LINE
NWSE SEC 36 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917058_JRU-106H\012917058_FIG01_SL_2017.mxd



LEGEND

SOIL SAMPLE

IMAGE COURTESY OF GOOGLE EARTH 2017

0 50 100

Feet

N

FIGURE 2
SITE SAMPLE LOCATIONS
JRU-106H FLOW LINE
NWSE SEC 36 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917058_JRU-106H\012917058_FIG02_SITE_2017.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
JRU-106H FLOW LINE
EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range (mg/kg)	C28-40 Oil Range (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS-1	0.5	12/20/2017	<0.000530	<0.00530	<0.000530	<0.00159	<0.00530	<0.106	247	390	637	115
SS-2	0.5	12/20/2017	<0.000614	<0.00614	<0.000614	<0.0184	<0.00614	<0.123	<4.91	<4.91	<4.91	43.7
SS-3	0.5	12/20/2017	<0.000540	<0.00540	<0.000540	<0.00162	<0.0054	<0.108	<4.32	<4.32	<4.32	41.6
SS-4	0.5	12/20/2017	<0.000504	<0.00504	<0.000504	<0.00151	<0.00504	<0.101	<4.04	<4.04	<4.04	52.2
SS-5	0.5	12/20/2017	<0.000506	<0.00506	<0.000506	<0.00152	<0.00506	<0.101	<4.05	<4.05	<4.05	38.2
SS-6	0.5	12/20/2017	<0.000514	<0.00514	<0.000514	<0.00154	<0.00514	<0.103	<4.11	<4.11	<4.11	53.9
NMOCD Regulatory Standard		NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:
bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - not established
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons

ATTACHMENT 1

INITIAL/FINAL NMOCD

FORM C-141

Advancing Opportunity

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

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 13 2015
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1513441350

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: JRU-106H Flow line, the spill is 2003 ft. East of the well pad. UL "J"	Facility Type: Exploration and Production

Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico	API No. 30-015-37063

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	36	22S	30E					Eddy

Latitude N 32.34644° **Longitude** W 103.83291°

NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 24 bbls	Volume Recovered: 20
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence: 5/3/15, time unknown	Date and Hour of Discovery: 5/3/15 at approximately 2:30 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher and Heather Patterson, company e-mail	
By Whom? Tony Savoie	Date and Hour: 5/3/15 at 6:39 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The flow line developed a leak due to corrosion, a temporary leak clamp was placed on the affected area until the well could be shut down and a joint of pipe replaced.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 1,020 sq.ft. of pasture. All of the free standing fluid was picked up with a vacuum truck.
The stained area was left as is pending the final remediation.
The spill area will be cleaned up in accordance to the NMOCD guidelines.

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: Tony Savoie	OIL CONSERVATION DIVISION
Printed Name: Tony Savoie	Approved by Environmental Specialist:
Title: Waste Management and Remediation Specialist	Approval Date: 5/14/15 Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 6/15/2015 Attached ☐
Date: 5/13/15 Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

2RP-2999

FIELD SPILL REPORT

Distribution List: CJ Barry, TA Savoie, B. Biehl, JR Smitherman, SF Johnson, W Hanna G Fletcher, J Fuqua, C Giese, J Brooks, M Titsworth, A Ruth, A Thompson, B Blevins, K Bright

DATE: May 3, 2015

LOCATION OF SPILL SITE: JRU 106 Flowline 2003 Ft. East of well pad (API 30-015-37063)

UL "J" 36-23S-30E, Eddy Co. N.M.

GPS COORDINATES (Lat & Long): 32.34644 -103.83291

ESTIMATED VOLUMES (Oil & Water Separately):

*If BBLs Recovered are not available at time of Initial Report: Send in Follow-up report when numbers are known

Volume spilled:		BBls Spilled	*BBls Recovered	Net Spilled		BBls Spilled	*BBls Recovered	Net Spilled
On ground /or earth berm -	Oil:	24	20	4	Water:	0		0
Contained in impervious liner -	Oil:			0	Water:			0
Total:	Oil:	24	20	4	Water:	0	0	0

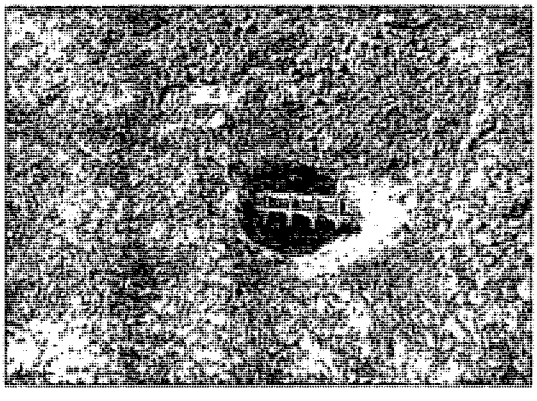
DESCRIPTION (What happened?):

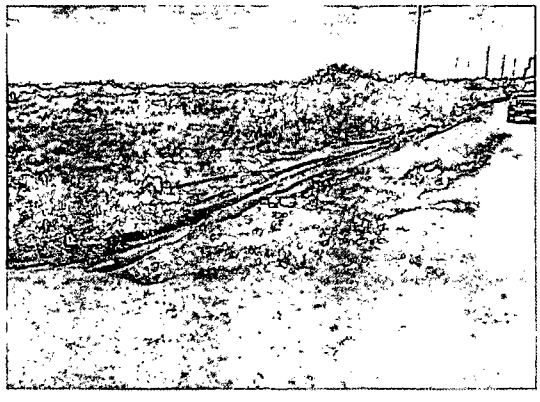
EHS was notified of a release that occurred on the JRU 106 flowline. Release was due to external corrosion

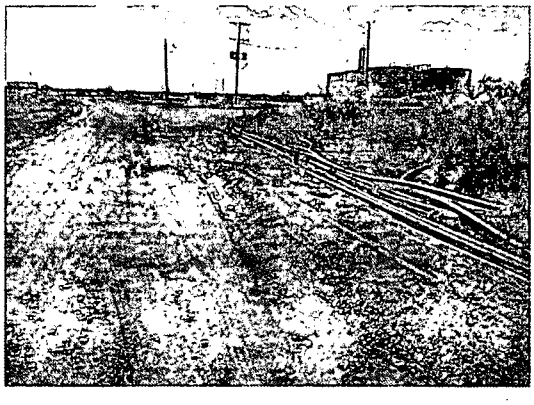
SPILL RESPONSE (How was the spill cleaned up?):

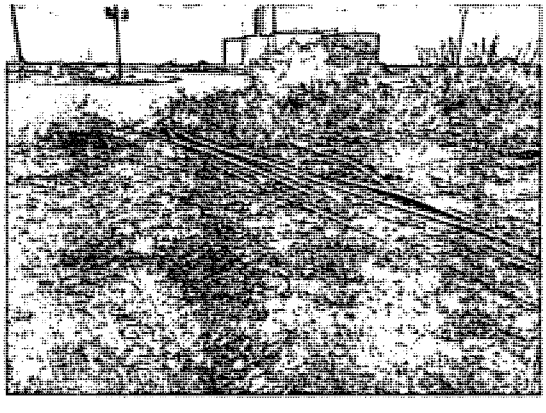
Vacuum truck came out to location and recovered 20 bbls of oil. Further rememdiation will be planned

PICTURE ATTACHMENT:



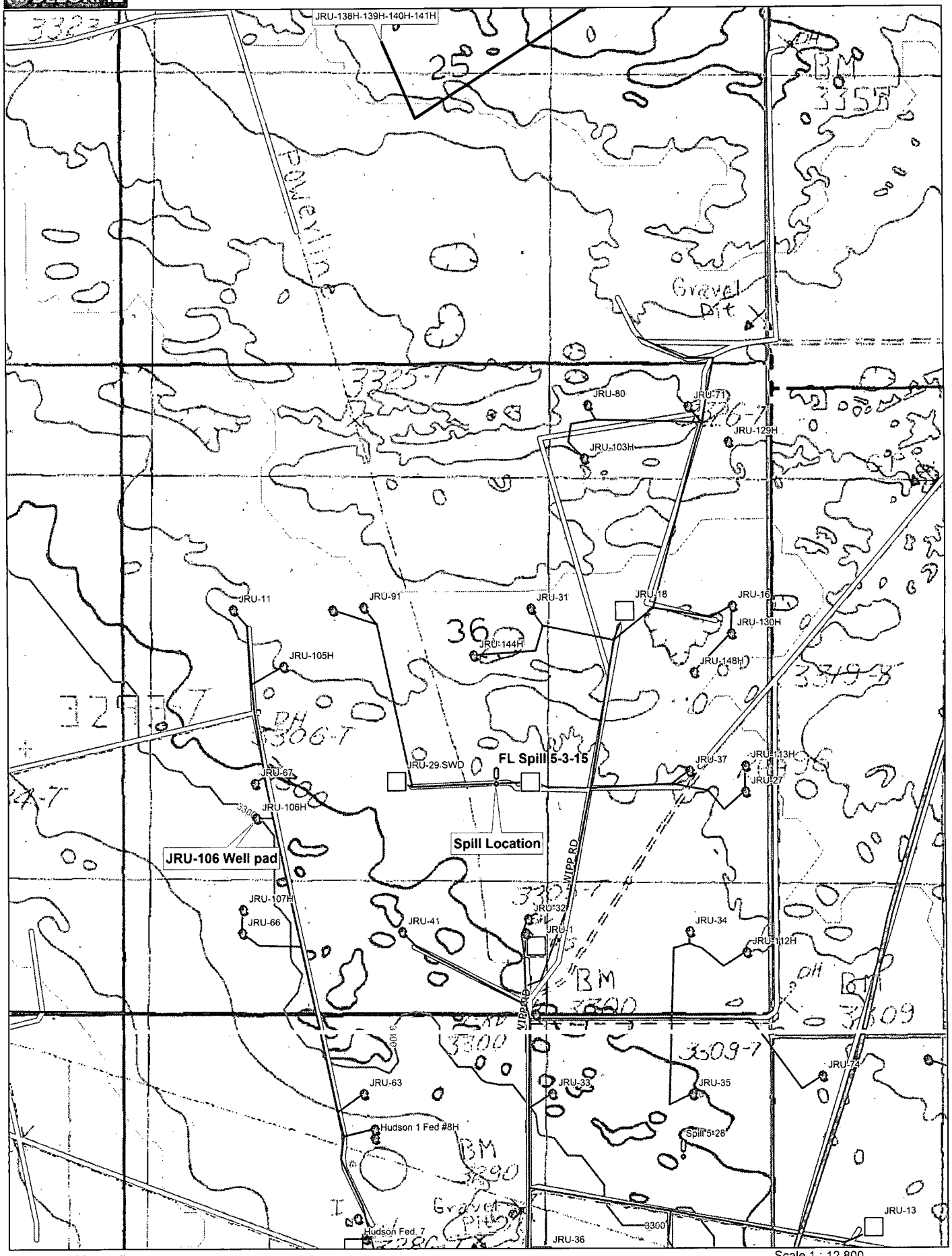






DeLORME

Topo North America™ 10



Data use subject to license.

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www.delorme.com

TN

MN (7.3°E)

Scale 1 : 12,800

1" = 1,066.7 ft

Data Zoom 14-0

District I
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

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

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: XTO Energy, Inc.	Contact: Garrett Green
Address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	Telephone No. 575-200-0729
Facility Name JRU-106H flow line, the spill is 2003 ft. East of the well pad UL"J"	Facility Type Exploration and Production

Surface Owner State of New Mexico	Mineral Owner State of New Mexico	API No. 30-015-37063

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	36	22S	30E					EDDY

Latitude_____N 32.34644_____ **Longitude**_____-103.83291_____ NAD83

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 24 bbls	Volume Recovered 20
Source of Release 2 7/8" flow line	Date and Hour of Occurrence 5/3/15, time unknown	Date and Hour of Discovery 5/3/15 at approximately 2:30 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher and Heather Patterson, company e-mail	
By Whom?	Date and Hour 5/3/15 at 6:39pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The flow line developed a leak due to corrosion, a temporary leak clamp was placed on the affected area until the well could be shut down and a joint of pipe replaced.

Describe Area Affected and Cleanup Action Taken.*

The spill impacted approximately 1,020 sq.ft. of pasture. All of the free-standing fluid was picked up with a vacuum truck. The stained area was left as is pending the final remediation. The spill area will be cleaned up in accordance to the NMOCD guidelines. Six soil samples were collected on 12/20/2017 below surface to confirm spill remediation was completed to NMOCD guidelines.

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: Garrett Green	Approved by Environmental Specialist:	
Title: SSHE Coordinator	Approval Date:	Expiration Date:
E-mail Address: garrett.green@exxonmobil.com	Conditions of Approval:	Attached ☐
Date: 5-19-2023 Phone: 575-200-0729		

* Attach Additional Sheets If Necessary

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

Advancing Opportunity

ANALYTICAL REPORT

January 03, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L959675
Samples Received:	12/23/2017
Project Number:	30-015-37063
Description:	Confirmation Soil Samples
Site:	JRU-106H FLOWLINE
Report To:	Kyle Littrell 6401 N Holiday Hill Rd Suite 200 Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

SS-1 L959675-01 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:26	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 20:01	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 15:33	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	10	01/02/18 08:29	01/03/18 13:01	ACM

SS-2 L959675-02 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:29	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 20:35	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 15:55	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	1	01/02/18 08:29	01/03/18 11:01	ACM

SS-3 L959675-03 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:31	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 20:43	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 16:17	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	1	01/02/18 08:29	01/03/18 11:18	ACM

SS-4 L959675-04 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:32	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 21:09	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 16:39	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	1	01/02/18 08:29	01/03/18 12:10	ACM

SS-5 L959675-05 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:34	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 21:17	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 17:02	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	1	01/02/18 08:29	01/03/18 12:27	ACM

SS-6 L959675-06 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/20/17 13:36	12/23/17 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1058632	1	01/02/18 08:44	01/02/18 08:55	KDW
Wet Chemistry by Method 300.0	WG1057208	1	12/26/17 16:55	12/26/17 21:26	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1057763	1	12/27/17 13:57	12/28/17 17:24	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058722	1	01/02/18 08:29	01/03/18 12:44	ACM

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.3		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	115		10.6	1	12/26/2017 20:01	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000530	1	12/28/2017 15:33	WG1057763
Toluene	ND		0.00530	1	12/28/2017 15:33	WG1057763
Ethylbenzene	ND		0.000530	1	12/28/2017 15:33	WG1057763
Total Xylene	ND		0.00159	1	12/28/2017 15:33	WG1057763
TPH (GC/FID) Low Fraction	ND		0.106	1	12/28/2017 15:33	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*91.3*		*77.0-120*		*12/28/2017 15:33*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*97.5*		*75.0-128*		*12/28/2017 15:33*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	247		42.4	10	01/03/2018 13:01	WG1058722
C28-C40 Oil Range	390		42.4	10	01/03/2018 13:01	WG1058722
(S) o-Terphenyl	*75.9*		*18.0-148*		*01/03/2018 13:01*	WG1058722

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	43.7		12.3	1	12/26/2017 20:35	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000614	1	12/28/2017 15:55	WG1057763
Toluene	ND		0.00614	1	12/28/2017 15:55	WG1057763
Ethylbenzene	ND		0.000614	1	12/28/2017 15:55	WG1057763
Total Xylene	ND		0.00184	1	12/28/2017 15:55	WG1057763
TPH (GC/FID) Low Fraction	ND		0.123	1	12/28/2017 15:55	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*92.3*		*77.0-120*		*12/28/2017 15:55*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*75.0-128*		*12/28/2017 15:55*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.91	1	01/03/2018 11:01	WG1058722
C28-C40 Oil Range	ND		4.91	1	01/03/2018 11:01	WG1058722
(S) o-Terphenyl	*94.3*		*18.0-148*		*01/03/2018 11:01*	WG1058722

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.6		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	41.6		10.8	1	12/26/2017 20:43	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000540	1	12/28/2017 16:17	WG1057763
Toluene	ND		0.00540	1	12/28/2017 16:17	WG1057763
Ethylbenzene	ND		0.000540	1	12/28/2017 16:17	WG1057763
Total Xylene	ND		0.00162	1	12/28/2017 16:17	WG1057763
TPH (GC/FID) Low Fraction	ND		0.108	1	12/28/2017 16:17	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*12/28/2017 16:17*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*75.0-128*		*12/28/2017 16:17*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.32	1	01/03/2018 11:18	WG1058722
C28-C40 Oil Range	ND		4.32	1	01/03/2018 11:18	WG1058722
(S) o-Terphenyl	*108*		*18.0-148*		*01/03/2018 11:18*	WG1058722

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.1		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	52.2		10.1	1	12/26/2017 21:09	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000504	1	12/28/2017 16:39	WG1057763
Toluene	ND		0.00504	1	12/28/2017 16:39	WG1057763
Ethylbenzene	ND		0.000504	1	12/28/2017 16:39	WG1057763
Total Xylene	ND		0.00151	1	12/28/2017 16:39	WG1057763
TPH (GC/FID) Low Fraction	ND		0.101	1	12/28/2017 16:39	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*92.7*		*77.0-120*		*12/28/2017 16:39*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*98.7*		*75.0-128*		*12/28/2017 16:39*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.04	1	01/03/2018 12:10	WG1058722
C28-C40 Oil Range	ND		4.04	1	01/03/2018 12:10	WG1058722
(S) o-Terphenyl	*109*		*18.0-148*		*01/03/2018 12:10*	WG1058722

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.8		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	38.2		10.1	1	12/26/2017 21:17	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000506	1	12/28/2017 17:02	WG1057763
Toluene	ND		0.00506	1	12/28/2017 17:02	WG1057763
Ethylbenzene	ND		0.000506	1	12/28/2017 17:02	WG1057763
Total Xylene	ND		0.00152	1	12/28/2017 17:02	WG1057763
TPH (GC/FID) Low Fraction	ND		0.101	1	12/28/2017 17:02	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*12/28/2017 17:02*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*98.5*		*75.0-128*		*12/28/2017 17:02*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.05	1	01/03/2018 12:27	WG1058722
C28-C40 Oil Range	ND		4.05	1	01/03/2018 12:27	WG1058722
(S) o-Terphenyl	*116*		*18.0-148*		*01/03/2018 12:27*	WG1058722

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	01/02/2018 08:55	WG1058632

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	53.9		10.3	1	12/26/2017 21:26	WG1057208

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000514	1	12/28/2017 17:24	WG1057763
Toluene	ND		0.00514	1	12/28/2017 17:24	WG1057763
Ethylbenzene	ND		0.000514	1	12/28/2017 17:24	WG1057763
Total Xylene	ND		0.00154	1	12/28/2017 17:24	WG1057763
TPH (GC/FID) Low Fraction	ND		0.103	1	12/28/2017 17:24	WG1057763
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*12/28/2017 17:24*	WG1057763
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*75.0-128*		*12/28/2017 17:24*	WG1057763

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.11	1	01/03/2018 12:44	WG1058722
C28-C40 Oil Range	ND		4.11	1	01/03/2018 12:44	WG1058722
(S) o-Terphenyl	*104*		*18.0-148*		*01/03/2018 12:44*	WG1058722

Method Blank (MB)

(MB) R3277133-1 01/02/18 08:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.001			

L959675-04 Original Sample (OS) • Duplicate (DUP)

(OS) L959675-04 01/02/18 08:55 • (DUP) R3277133-3 01/02/18 08:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.1	99.1	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3277133-2 01/02/18 08:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3275840-1 12/26/17 18:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L959675-01 Original Sample (OS) • Duplicate (DUP)

(OS) L959675-01 12/26/17 20:01 • (DUP) R3275840-4 12/26/17 20:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	115	134	1	14.5		20

L959675-06 Original Sample (OS) • Duplicate (DUP)

(OS) L959675-06 12/26/17 21:26 • (DUP) R3275840-7 12/26/17 21:34

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	53.9	52.5	1	2.55		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3275840-2 12/26/17 18:44 • (LCSD) R3275840-3 12/26/17 18:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	197	193	98.7	96.4	90-110			2.36	20

L959675-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L959675-03 12/26/17 20:43 • (MS) R3275840-5 12/26/17 20:52 • (MSD) R3275840-6 12/26/17 21:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	540	41.6	627	584	108	100	1	80-120			7.13	20

Method Blank (MB)

(MB) R3276845-5 12/28/17 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000246	J	0.000150	0.00500
Ethylbenzene	0.000114	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0218	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*102*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3276845-1 12/28/17 09:34 • (LCSD) R3276845-2 12/28/17 09:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0450	0.0430	90.0	86.0	71.0-121			4.65	20
Toluene	0.0500	0.0464	0.0434	92.8	86.9	72.0-120			6.56	20
Ethylbenzene	0.0500	0.0482	0.0455	96.5	90.9	76.0-121			5.94	20
Total Xylene	0.150	0.143	0.133	95.2	88.9	75.0-124			6.81	20
(S) a,a,a-Trifluorotoluene(FID)				*94.4*	*94.7*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*99.7*	*99.9*	*75.0-128*				

Laboratory Control Sample (LCS)

(LCS) R3276845-3 12/28/17 10:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.92	89.4	70.0-136	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	
(S) a,a,a-Trifluorotoluene(PID)			*113*	*75.0-128*	

Laboratory Control Sample (LCS)

(LCS) R3276845-4 12/28/17 10:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.11	93.0	70.0-136	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	
(S) a,a,a-Trifluorotoluene(PID)			*118*	*75.0-128*	

L959663-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L959663-04 12/28/17 12:36 • (MS) R3276845-6 12/28/17 18:08 • (MSD) R3276845-7 12/28/17 18:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0520	ND	0.00589	0.0225	10.8	42.8	1	10.0-146		J3	117	29
Toluene	0.0520	ND	0.00248	0.0152	3.96	28.4	1	10.0-143	J6	J3	144	30
Ethylbenzene	0.0520	ND	0.00139	0.00995	2.43	18.9	1	10.0-147	J6	J3	151	31
Total Xylene	0.156	ND	0.00453	0.0288	2.39	17.9	1	10.0-149	J6	J3 J6	146	30
(S) a,a,a-Trifluorotoluene(FID)					*84.9*	*87.0*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*90.5*	*92.5*		*75.0-128*				

L959663-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L959663-04 12/28/17 12:36 • (MS) R3276845-8 12/28/17 18:52 • (MSD) R3276845-9 12/28/17 19:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.72	ND	0.683	0.983	10.4	15.7	1	10.0-147		J3	36.1	30
(S) a,a,a-Trifluorotoluene(FID)					*89.8*	*89.9*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*94.0*	*93.9*		*75.0-128*				

Method Blank (MB)

(MB) R3277231-1 01/03/18 10:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*102*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277231-2 01/03/18 10:26 • (LCSD) R3277231-3 01/03/18 10:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	48.8	47.2	81.3	78.7	50.0-150			3.24	20
(S) o-Terphenyl				*116*	*110*	*18.0-148*				

L959675-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L959675-03 01/03/18 11:18 • (MS) R3277231-4 01/03/18 11:35 • (MSD) R3277231-5 01/03/18 11:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	64.8	ND	53.8	56.0	83.1	86.4	1	50.0-150			3.93	20
(S) o-Terphenyl					*104*	*108*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

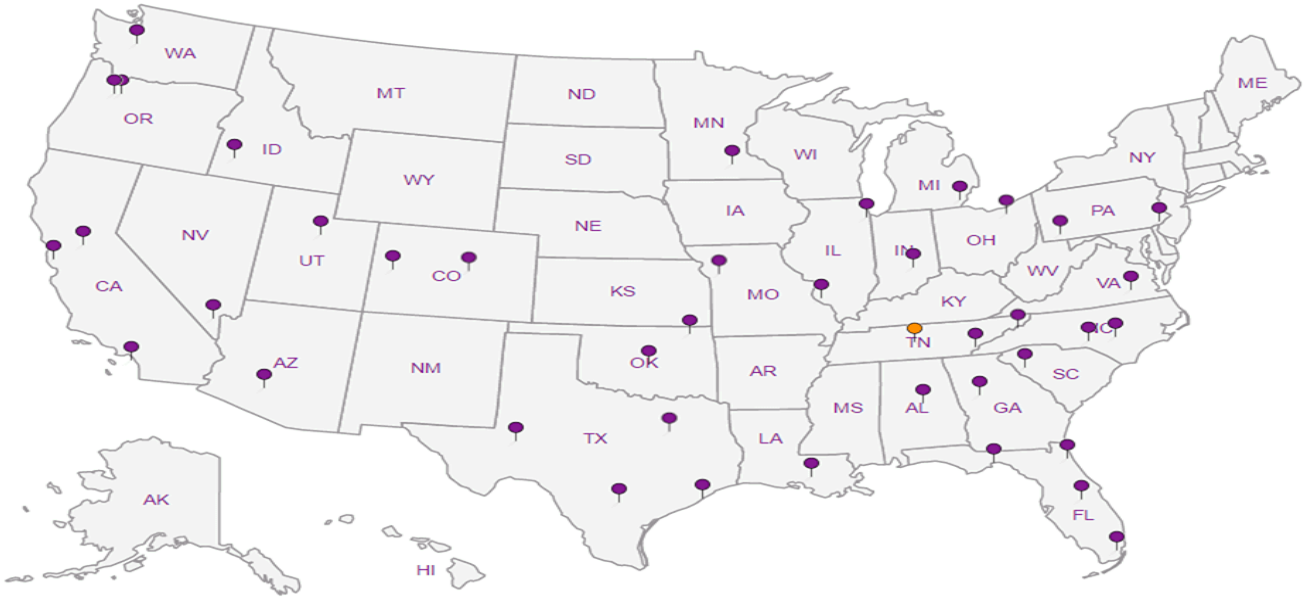
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



LT Environmental

Billing Information: XTO

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORIES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Kyle Littrell

Email To: Kyle_Littrell@XTOenergy.com, Abaker@LTenv.com

Project Description: Confirmation Soil Samples

City/State Collected: NM

Phone: 1-970-317-1867 Fax:

Client Project # 30-015-37063

Lab Project #

L# LG 59675

G102

Collected by (print): Aaron Williamson

Site/Facility ID # (2RP-2999) JRU-106H Flowline

P.O. # 012917058

Collected by (signature): Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ✓ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Acctnum: ~~ST~~ XTOMDX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX-EPA Method 8021	TPH-EPA Method 8015	Chloride-EPA Method 300.1	Remarks	Sample # (lab only)
SS-1	Grab	SS	6"	12/20/17	13:26	1	✓	✓	✓		-01
SS-2	Grab	SS	6"	12/20/17	13:29	1	✓	✓	✓		02
SS-3	Grab	SS	6"	12/20/17	13:31	1	✓	✓	✓		03
SS-4	Grab	SS	6"	12/20/17	13:32	1	✓	✓	✓		04
SS-5	Grab	SS	6"	12/20/17	13:34	1	✓	✓	✓		05
SS-6	Grab	SS	6"	12/20/17	13:36	1	✓	✓	✓		06
N.F.E	ARW										

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier XTO

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/20/17	19:03	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/21/17	14:50	Southwest Airlines
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: 4.5 5b °C Bottles Received: 6

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

Date: 12-23-17 Time: 0945

Jeremy W. Watkins

ESC Lab Sciences
Non-Conformance Form

Login #: L959675	Client: XTORNM	Date: 12/23/17	Evaluated by: Jeremy

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: What TPH?

Client informed by:		Call		Email		Voice Mail		Date: 12/23/17	Time: 2:40pm
TSR Initials: NM	Client Contact:								

Login Instructions:

These are logged correctly.

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 219840

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 219840
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	10/30/2023