



LT Environmental, Inc.

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

May 25, 2018

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210**RE: Closure Request
Barney BEF Federal #001
Remediation Permit Number 2RP-3815
Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following letter report detailing the soil sampling activities at the Barney BEF Federal #001 well pad (Site) in Unit O, Section 1, Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the investigation was to assess impacts to soil after a poly flow line ruptured. The rupture caused a release of approximately 46 barrels (bbls) of produced water and approximately 16 bbls of crude oil. The release date is unknown but was discovered on July 29, 2016. The spill impacted approximately 6,098 square feet of the pasture immediately west of the well and tank battery. Free-standing liquids were removed with a vacuum truck; approximately 5 bbls of produced water and 5 bbls of crude oil were recovered. Over-sprayed areas and vegetation were treated with Micro-blaze[®], and saturated soil was scraped and removed. The previous operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on August 2, 2016, and was assigned Remediation Permit Number (RP) 2RP-3815 (Attachment 1). The soil sampling was completed to assess current site conditions and evaluate the need for additional remediation. 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. Based on the results of the sampling event as described herein, XTO is requesting no further action for this release event.

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 02415, located approximately 3.66 miles southeast of the Site, with a depth to groundwater of 448 feet bgs and a total depth of 880 feet bgs. The Site is greater than 1,000 feet from a water source and greater than 200 feet from a private domestic water source. The closest surface water to the Site is an arroyo located approximately 2,960 feet west 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





Bratcher, M.
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(TPH). LTE proposes a site-specific chloride action level of 600 mg/kg or within 10 percent [%] of the background concentrations.

SOIL SAMPLING

Soil sample locations were based on visual inspection of the Site and the Form C-141 information. Based on the latitude and longitude given on the initial C-141, historical aerial images from Google Earth, and description of the affected area, LTE determined the release occurred at the northwest corner of the well pad. LTE collected seven soil samples on February 6, 2018, 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 release source and area potentially affected by the release.

To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each sample 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 delivered at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by USEPA Method 8015, and chloride by USEPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for the seven soil samples indicated BTEX concentrations ranged from below the laboratory reporting limit in soil samples SS1, SS2, SS3, SS4, SS5, and SS7 to 0.0196 mg/kg in soil sample SS6. Laboratory analytical results for TPH indicated no detected concentrations exceeded the NMOCD remediation action levels for the Site with values ranging from below the laboratory reporting limits in soil samples SS2, SS3, SS4, SS5, SS6 and SS7 to 2,200 mg/kg in soil sample SS1. Chloride concentrations ranged from below the laboratory reporting limit in soil samples SS3, SS4, SS5, SS6, SS7 to 453 mg/kg in soil sample SS1. Laboratory analytical results are presented on Figure 2 and in Table 1, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results for soil samples collected within the former 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 Site, and XTO requests no further action at this Site.





Bratcher, M.
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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.

A handwritten signature in blue ink that reads "Adrian Baker".

Adrian Baker
Project Geologist

A handwritten signature in blue ink that reads "Ashley L. Ager".

Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Crystal Weaver, NMOCD
Jim Amos, BLM
Shelly Tucker, BLM

Attachments:

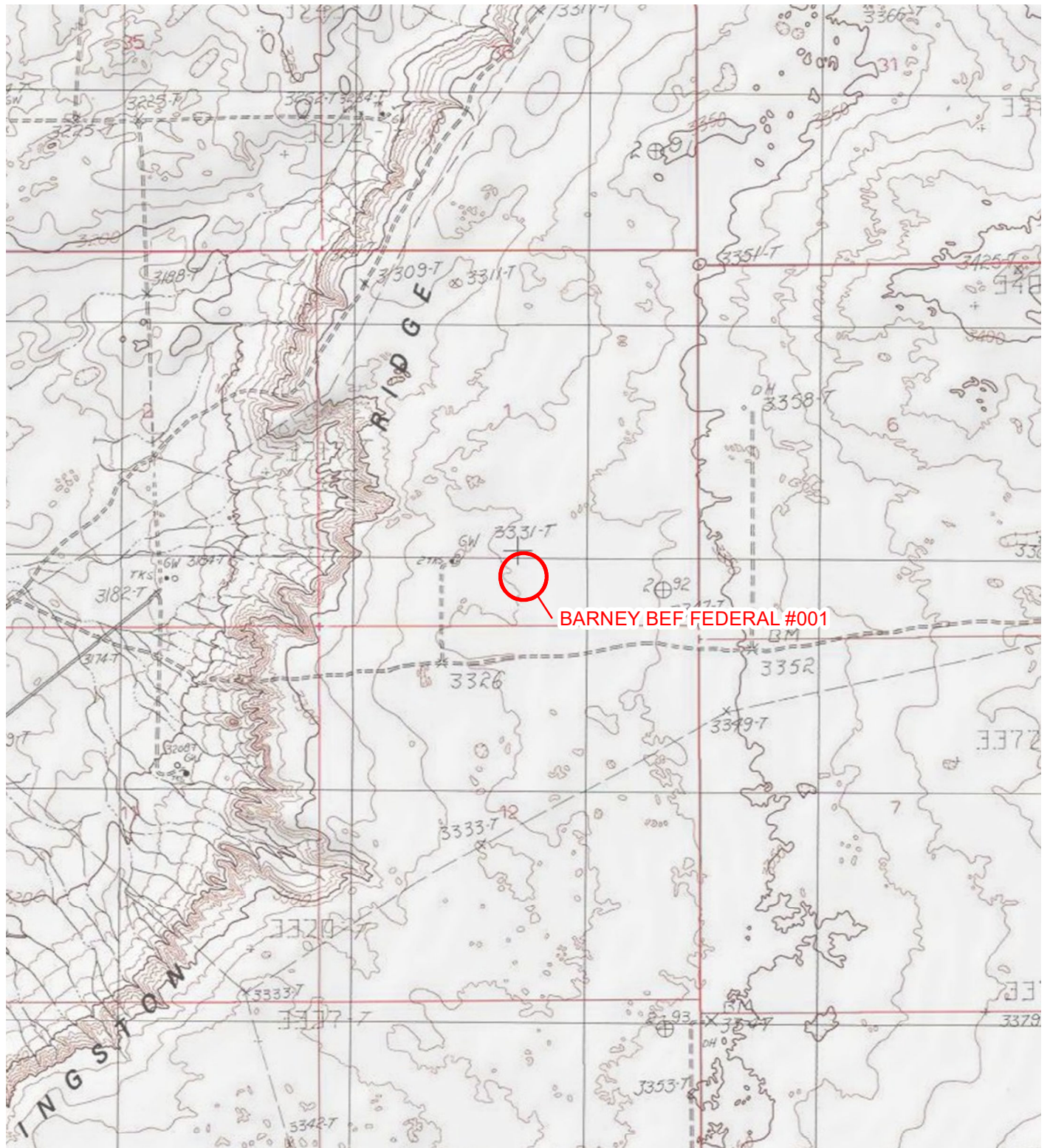
Figure 1 Site Location Map
Figure 2 Site Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Initial NMOCD Form C-141
Attachment 2 Laboratory Analytical Report



FIGURES

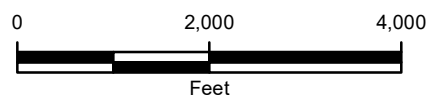


Advancing Opportunity

**LEGEND**

○ SITE LOCATION

IMAGE COURTESY OF ESRI/USGS

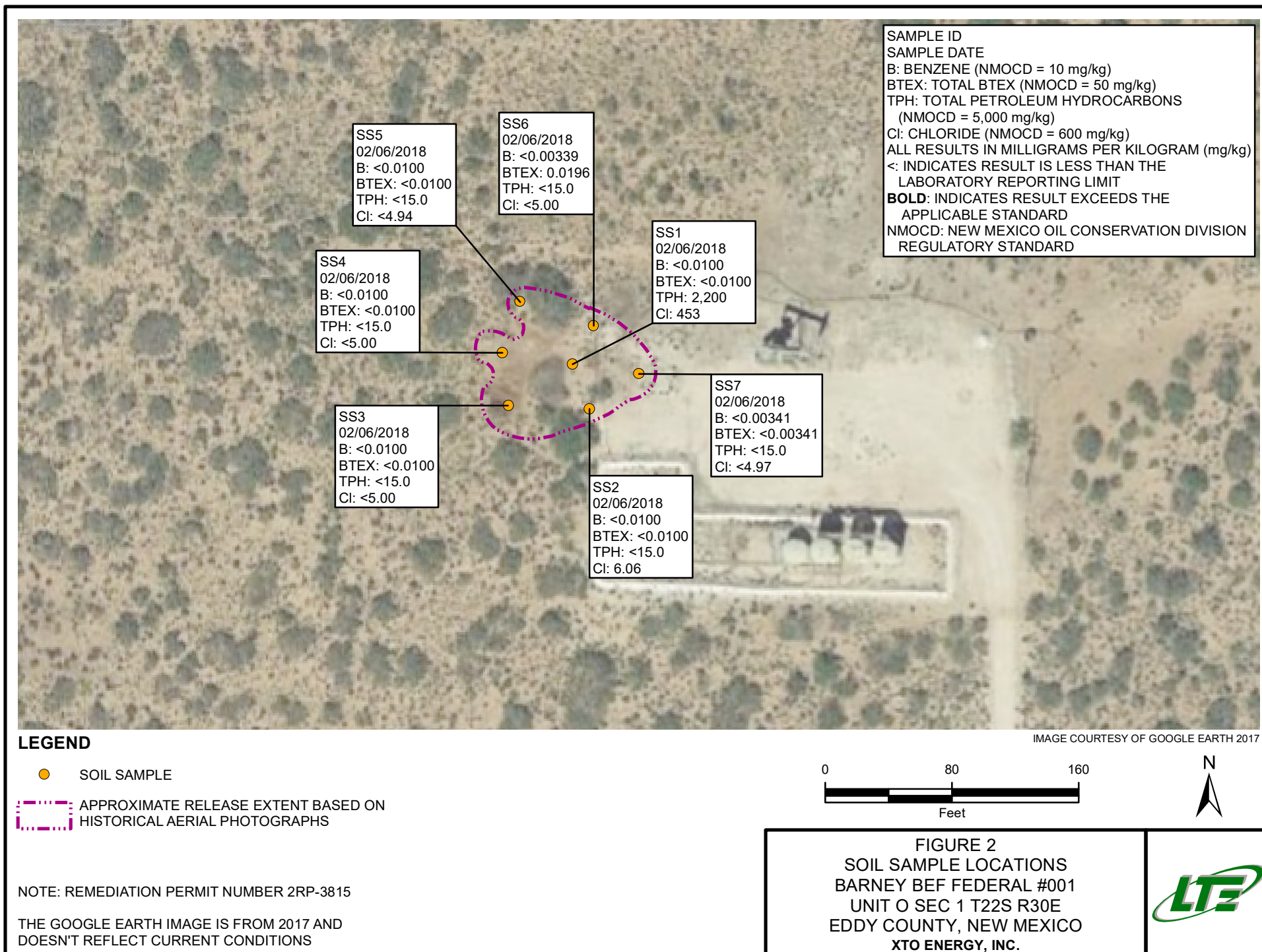


NOTE: 2RP-3815

FIGURE 1
SITE LOCATION MAP
BARNEY BEF FEDERAL #001
UNIT O SEC 1 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



P:\XTO Energy\GIS\MXD\012918031_BARNEY BEF FEDERAL #001\012918031_FIG01_SL_2018.mxd



TABLE



Advancing Opportunity

TABLE 1
SOIL ANALYTICAL RESULTS
BARNEY BEF FEDERAL #001
REMEDIATION PERMIT NUMBER 2RP-3815
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)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-C40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS1	0.5	02/06/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<15.0	1,970	232	2,200	453
SS2	0.5	02/06/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<15.0	<15.0	<15.0	<15.0	6.06
SS3	0.5	02/06/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<15.0	<15.0	<15.0	<15.0	<5.00
SS4	0.5	02/06/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<15.0	<15.0	<15.0	<15.0	<5.00
SS5	0.5	02/06/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<15.0	<15.0	<15.0	<15.0	<4.94
SS6	0.5	02/06/2018	<0.00339	<0.00339	0.0196	<0.00339	0.0196	<15.0	<15.0	<15.0	<15.0	<5.00
SS7	0.5	02/06/2018	<0.00341	<0.00341	<0.00341	<0.00341	<0.00341	<15.0	<15.0	<15.0	<15.0	<4.97
NMOCD Remediation Action Levels			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 NMOCD FORM C-141



Advancing Opportunity

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy Minerals and Natural Resources

AUG 02 2016

Form C-141
Revised August 8, 2011District 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 87505Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB 1621754389 **260737** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Barney BEF Federal #001	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-26799	

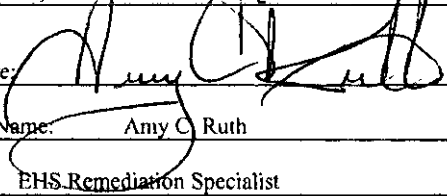

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	22S	30E	660	South	2445	East	Eddy

Latitude 32.415680° Longitude -103.833531°

NATURE OF RELEASE

Type of Release	Crude Oil and Produced Water	Volume of Release	46 bbl PW 16 bbl Oil	Volume Recovered	5 bbl PW 5 bbl Oil
Source of Release	Poly Flow Line	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	7/29/2016 10 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher/Heather Patterson (NMOCD), Shelly Tucker (BLM)		
By Whom?	Amy Ruth	Date and Hour	7/29/2016 5:54 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Poly flow line rupture, possibly due to paraffin plug. Line was repaired.					
Describe Area Affected and Cleanup Action Taken.* Leak affected approximately 6,098 sq. ft. of pasture immediately west of the well and battery location. Standing fluids were recovered. Over-sprayed areas and vegetation were washed with Micro-blaze and saturated surface soils were scraped up and stockpiled on plastic.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Amy C. Ruth		Signed By:  Approved by Environmental Specialist:	
Title: EHS Remediation Specialist		Approval Date: 8/2/16	Expiration Date: N/A
E-mail Address: ACRuth@basspet.com		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 4/8/16	
Date: 8/2/2016 Phone: 432-661-0571		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

2RP-3815

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

State of New Mexico
Energy Minerals and Natural Resources

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

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	Contact: Kyle Littrell
Address 3104 E Greene Street, Carlsbad, NM 88220	Telephone No: 432-221-7331
Facility Name: Barney BEF Federal #001	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-26799
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	22S	30E	660	South	2445	East	Eddy

Latitude 32.415680 Longitude -103.833531

NATURE OF RELEASE



Type of Release Crude Oil and Produced Water	Volume of Release 46 bbl PW 16 bbl Oil	Volume Recovered 5 bbl PW 5 bbl Oil
Source of Release: Poly Flow Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/29/2016 10 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Shelly Tucker (BLM)	
By Whom? Amy Ruth	Date and Hour: 7/29/2016 5:54 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Poly flow line rupture, possibly due to paraffin plug. Line was repaired.

Describe Area Affected and Cleanup Action Taken.*
Leak affected approximately 6,098 sq. ft. of pasture immediately west of the well and battery location. Standing fluids were recovered. Over-sprayed areas and vegetation were washed with micro-blaze and saturated surface soils were scraped up and stockpiled on plastic. LTE collected seven soil samples on February 6, 2018. Laboratory analytical results indicate concentrations of BTEX, TPH, and chloride are below the NMOCD remediation action levels for this site. Initial response efforts and natural degradation have remediated this Site, and XTO requests no further action at this Site.

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: Kyle Littrell	Approved by Environmental Specialist: 	
Title: SH&E Coordinator	Approval Date: 2/27/2023	Expiration Date: N/A
E-mail Address: Kyle_Littrell@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-24-2018 Phone: 432-221-7331	Based on the dates included in the report, the final C-141, and the file date; this report was submitted prior to the current rules. This report was closed under the old rules.	

* Attach Additional Sheets If Necessary

ATTACHMENT 2
LABORATORY ANALYTICAL REPORT



Advancing Opportunity

Analytical Report 575582

for
LT Environmental, Inc.

Project Manager: Adrian Baker
Barney BEF Federal #001/ 30-015-26799

15-FEB-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



15-FEB-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **575582**

Barney BEF Federal #001/ 30-015-26799

Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 575582. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 575582 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 575582****LT Environmental, Inc., Arvada, CO**

Barney BEF Federal #001/ 30-015-26799

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS1	S	02-06-18 08:33	6"	575582-001
SS2	S	02-06-18 08:35	6"	575582-002
SS3	S	02-06-18 08:37	6"	575582-003
SS4	S	02-06-18 08:40	6"	575582-004
SS5	S	02-06-18 08:42	6"	575582-005
SS6	S	02-06-18 08:45	6"	575582-006
SS7	S	02-06-18 08:47	6"	575582-007



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Barney BEF Federal #001/ 30-015-26799

Project ID:

Work Order Number(s): 575582

Report Date: 15-FEB-18

Date Received: 02/07/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3040661 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3040874 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 575582-007.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 575582

LT Environmental, Inc., Arvada, CO

Project Name: Barney BEF Federal #001/ 30-015-26799



Project Id:

Contact: Adrian Baker

Project Location: NM

Date Received in Lab: Wed Feb-07-18 08:00 am

Report Date: 15-FEB-18

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	575582-001	575582-002	575582-003	575582-004	575582-005	575582-006
	<i>Field Id:</i>	SS1	SS2	SS3	SS4	SS5	SS6
	<i>Depth:</i>	6"-	6"-	6"-	6"-	6"-	6"-
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-06-18 08:33	Feb-06-18 08:35	Feb-06-18 08:37	Feb-06-18 08:40	Feb-06-18 08:42	Feb-06-18 08:45
BTEX by EPA 8021B	<i>Extracted:</i>	Feb-09-18 08:00	Feb-09-18 08:00	Feb-09-18 08:00	Feb-09-18 08:00	Feb-09-18 08:00	Feb-12-18 08:00
	<i>Analyzed:</i>	Feb-09-18 15:53	Feb-09-18 16:32	Feb-09-18 16:51	Feb-09-18 17:10	Feb-09-18 17:41	Feb-12-18 12:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.00339 0.00339
Toluene		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.00339 0.00339
Ethylbenzene		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	0.0196 0.00339
m,p-Xylenes		<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.00678 0.00678
o-Xylene		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.00339 0.00339
Total Xylenes		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.00339 0.00339
Total BTEX		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	0.0196 0.00339
Inorganic Anions by EPA 300	<i>Extracted:</i>	Feb-14-18 10:00	Feb-14-18 10:00	Feb-14-18 10:00	Feb-14-18 10:00	Feb-14-18 10:00	Feb-14-18 10:00
	<i>Analyzed:</i>	Feb-14-18 17:26	Feb-14-18 17:32	Feb-14-18 17:50	Feb-14-18 17:56	Feb-14-18 18:02	Feb-14-18 18:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		453 4.98	6.06 4.97	<5.00 5.00	<5.00 5.00	<4.94 4.94	<5.00 5.00
TPH by SW8015 Mod	<i>Extracted:</i>	Feb-10-18 11:00	Feb-10-18 11:00	Feb-10-18 11:00	Feb-10-18 11:00	Feb-10-18 11:00	Feb-10-18 11:00
	<i>Analyzed:</i>	Feb-11-18 01:03	Feb-11-18 01:24	Feb-11-18 01:44	Feb-11-18 02:04	Feb-11-18 02:24	Feb-11-18 03:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		1970 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		232 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		2200 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Odessa Laboratory Director



Certificate of Analysis Summary 575582

LT Environmental, Inc., Arvada, CO

Project Name: Barney BEF Federal #001/ 30-015-26799



Project Id:

Contact: Adrian Baker

Project Location: NM

Date Received in Lab: Wed Feb-07-18 08:00 am

Report Date: 15-FEB-18

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	575582-007					
	Field Id:	SS7					
	Depth:	6"-					
	Matrix:	SOIL					
	Sampled:	Feb-06-18 08:47					
BTEX by EPA 8021B	Extracted:	Feb-12-18 08:00					
	Analyzed:	Feb-12-18 17:07					
	Units/RL:	mg/kg RL					
Benzene		<0.00341 0.00341					
Toluene		<0.00341 0.00341					
Ethylbenzene		<0.00341 0.00341					
m,p-Xylenes		<0.00683 0.00683					
o-Xylene		<0.00341 0.00341					
Total Xylenes		<0.00341 0.00341					
Total BTEX		<0.00341 0.00341					
Inorganic Anions by EPA 300	Extracted:	Feb-14-18 10:00					
	Analyzed:	Feb-14-18 18:14					
	Units/RL:	mg/kg RL					
Chloride		<4.97 4.97					
TPH by SW8015 Mod	Extracted:	Feb-10-18 11:00					
	Analyzed:	Feb-11-18 03:49					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		<15.0 15.0					
Oil Range Hydrocarbons (ORO)		<15.0 15.0					
Total TPH		<15.0 15.0					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Odessa Laboratory Director



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS1** Matrix: Soil Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-001 Date Collected: 02.06.18 08.33 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 02.14.18 10.00 Basis: Wet Weight
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	453	4.98	mg/kg	02.14.18 17.26		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.10.18 11.00 Basis: Wet Weight
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 01.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	1970	15.0	mg/kg	02.11.18 01.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	232	15.0	mg/kg	02.11.18 01.03		1
Total TPH	PHC635	2200	15.0	mg/kg	02.11.18 01.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	02.11.18 01.03	
o-Terphenyl	84-15-1	77	%	70-135	02.11.18 01.03	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS1**
Lab Sample Id: 575582-001

Matrix: Soil
Date Collected: 02.06.18 08.33

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040661

Date Prep: 02.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	02.09.18 15.53	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
Total BTEX		<0.0100	0.0100	mg/kg	02.09.18 15.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	80-120	02.09.18 15.53		
4-Bromofluorobenzene	460-00-4	108	%	80-120	02.09.18 15.53		



Certificate of Analytical Results 575582

LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS2** Matrix: Soil Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-002 Date Collected: 02.06.18 08.35 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 02.14.18 10.00 Basis: Wet Weight
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.06	4.97	mg/kg	02.14.18 17.32		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.10.18 11.00 Basis: Wet Weight
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 01.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 01.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 01.24	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 01.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.11.18 01.24	
o-Terphenyl	84-15-1	101	%	70-135	02.11.18 01.24	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS2**
Lab Sample Id: 575582-002

Matrix: Soil
Date Collected: 02.06.18 08.35

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040661

Date Prep: 02.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	02.09.18 16.32	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
Total BTEX		<0.0100	0.0100	mg/kg	02.09.18 16.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	81	%	80-120	02.09.18 16.32		
4-Bromofluorobenzene	460-00-4	111	%	80-120	02.09.18 16.32		



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: SS3 Matrix: Soil Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-003 Date Collected: 02.06.18 08.37 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 02.14.18 10.00 Basis: Wet Weight
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	02.14.18 17.50	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.10.18 11.00 Basis: Wet Weight
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 01.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 01.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.11.18 01.44	
o-Terphenyl	84-15-1	102	%	70-135	02.11.18 01.44	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: SS3
Lab Sample Id: 575582-003

Matrix: Soil
Date Collected: 02.06.18 08.37

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040661

Date Prep: 02.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	02.09.18 16.51	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
Total BTEX		<0.0100	0.0100	mg/kg	02.09.18 16.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	80-120	02.09.18 16.51		
1,4-Difluorobenzene	540-36-3	84	%	80-120	02.09.18 16.51		



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS4** Matrix: Soil Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-004 Date Collected: 02.06.18 08.40 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 02.14.18 10.00 Basis: Wet Weight
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	02.14.18 17.56	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.10.18 11.00 Basis: Wet Weight
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 02.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 02.04	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 02.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 02.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	02.11.18 02.04	
o-Terphenyl	84-15-1	90	%	70-135	02.11.18 02.04	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS4**
Lab Sample Id: 575582-004

Matrix: Soil
Date Collected: 02.06.18 08.40

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040661

Date Prep: 02.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	02.09.18 17.10	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
Total BTEX		<0.0100	0.0100	mg/kg	02.09.18 17.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	80-120	02.09.18 17.10		
1,4-Difluorobenzene	540-36-3	81	%	80-120	02.09.18 17.10		



Certificate of Analytical Results 575582

LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS5** Matrix: **Soil** Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-005 Date Collected: 02.06.18 08.42 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: **OJS** % Moisture:
 Analyst: **OJS** Date Prep: 02.14.18 10.00 Basis: **Wet Weight**
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.94	4.94	mg/kg	02.14.18 18.02	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: **ARM** % Moisture:
 Analyst: **ARM** Date Prep: 02.10.18 11.00 Basis: **Wet Weight**
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 02.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 02.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 02.24	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 02.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	02.11.18 02.24	
o-Terphenyl	84-15-1	101	%	70-135	02.11.18 02.24	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: SS5
Lab Sample Id: 575582-005

Matrix: Soil
Date Collected: 02.06.18 08.42

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040661

Date Prep: 02.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	02.09.18 17.41	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
Total BTEX		<0.0100	0.0100	mg/kg	02.09.18 17.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	80-120	02.09.18 17.41		
1,4-Difluorobenzene	540-36-3	90	%	80-120	02.09.18 17.41		



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS6**
Lab Sample Id: 575582-006

Matrix: Soil
Date Collected: 02.06.18 08.45

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3041039

Date Prep: 02.14.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	02.14.18 18.08	U	1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3040795

Date Prep: 02.10.18 11.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 03.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 03.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 03.26	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 03.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	02.11.18 03.26	
o-Terphenyl	84-15-1	96	%	70-135	02.11.18 03.26	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS6**
Lab Sample Id: 575582-006

Matrix: Soil
Date Collected: 02.06.18 08.45

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040874

Date Prep: 02.12.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00339	0.00339	mg/kg	02.12.18 12.31	U	1
Toluene	108-88-3	<0.00339	0.00339	mg/kg	02.12.18 12.31	U	1
Ethylbenzene	100-41-4	0.0196	0.00339	mg/kg	02.12.18 12.31		1
m,p-Xylenes	179601-23-1	<0.00678	0.00678	mg/kg	02.12.18 12.31	U	1
o-Xylene	95-47-6	<0.00339	0.00339	mg/kg	02.12.18 12.31	U	1
Total Xylenes	1330-20-7	<0.00339	0.00339	mg/kg	02.12.18 12.31	U	1
Total BTEX		0.0196	0.00339	mg/kg	02.12.18 12.31		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	81	%	80-120	02.12.18 12.31		
4-Bromofluorobenzene	460-00-4	104	%	80-120	02.12.18 12.31		



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS7** Matrix: Soil Date Received: 02.07.18 08.00
 Lab Sample Id: 575582-007 Date Collected: 02.06.18 08.47 Sample Depth: 6"
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 02.14.18 10.00 Basis: Wet Weight
 Seq Number: 3041039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	02.14.18 18.14	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.10.18 11.00 Basis: Wet Weight
 Seq Number: 3040795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.11.18 03.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.11.18 03.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.11.18 03.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.11.18 03.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	02.11.18 03.49	
o-Terphenyl	84-15-1	92	%	70-135	02.11.18 03.49	



Certificate of Analytical Results 575582



LT Environmental, Inc., Arvada, CO

Barney BEF Federal #001/ 30-015-26799

Sample Id: **SS7**
Lab Sample Id: 575582-007

Matrix: Soil
Date Collected: 02.06.18 08.47

Date Received: 02.07.18 08.00
Sample Depth: 6"

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3040874

Date Prep: 02.12.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
Toluene	108-88-3	<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
Ethylbenzene	100-41-4	<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
m,p-Xylenes	179601-23-1	<0.00683	0.00683	mg/kg	02.12.18 17.07	U	1
o-Xylene	95-47-6	<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
Total Xylenes	1330-20-7	<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
Total BTEX		<0.00341	0.00341	mg/kg	02.12.18 17.07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	87	%	80-120	02.12.18 17.07		
4-Bromofluorobenzene	460-00-4	122	%	80-120	02.12.18 17.07	**	



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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LT Environmental, Inc.

Barney BEF Federal #001/ 30-015-26799

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3041039

MB Sample Id: 7639084-1-BLK

Matrix: Solid

LCS Sample Id: 7639084-1-BKS

Prep Method: E300P

Date Prep: 02.14.18

LCSD Sample Id: 7639084-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	274	110	273	109	90-110	0	20	mg/kg	02.14.18 11:32	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3041039

Parent Sample Id: 575580-001

Matrix: Soil

MS Sample Id: 575580-001 S

Prep Method: E300P

Date Prep: 02.14.18

MSD Sample Id: 575580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	51.9	248	334	114	336	115	90-110	1	20	mg/kg	02.14.18 11:50	X

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3041039

Parent Sample Id: 575581-005

Matrix: Soil

MS Sample Id: 575581-005 S

Prep Method: E300P

Date Prep: 02.14.18

MSD Sample Id: 575581-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.77	249	303	118	314	122	90-110	4	20	mg/kg	02.14.18 17:14	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3040795

MB Sample Id: 7638962-1-BLK

Matrix: Solid

LCS Sample Id: 7638962-1-BKS

Prep Method: TX1005P

Date Prep: 02.10.18

LCSD Sample Id: 7638962-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	952	95	813	81	70-135	16	35	mg/kg	02.10.18 21:55	
Diesel Range Organics (DRO)	<15.0	1000	1090	109	929	93	70-135	16	35	mg/kg	02.10.18 21:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		107		94		70-135	%	02.10.18 21:55
o-Terphenyl	99		112		97		70-135	%	02.10.18 21:55

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.

Barney BEF Federal #001/ 30-015-26799

Analytical Method: TPH by SW8015 Mod

Seq Number: 3040795

Parent Sample Id: 575575-001

Matrix: Soil

MS Sample Id: 575575-001 S

Prep Method: TX1005P

Date Prep: 02.10.18

MSD Sample Id: 575575-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	978	98	990	99	70-135	1	35	mg/kg	02.10.18 22:55	
Diesel Range Organics (DRO)	103	1000	1090	99	1100	100	70-135	1	35	mg/kg	02.10.18 22:55	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		105		70-135	%	02.10.18 22:55
o-Terphenyl	111		107		70-135	%	02.10.18 22:55

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040661

MB Sample Id: 7638881-1-BLK

Matrix: Solid

LCS Sample Id: 7638881-1-BKS

Prep Method: SW5030B

Date Prep: 02.09.18

LCSD Sample Id: 7638881-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0819	82	0.0878	88	70-130	7	35	mg/kg	02.09.18 09:03	
Toluene	<0.00199	0.0996	0.0873	88	0.0937	94	70-130	7	35	mg/kg	02.09.18 09:03	
Ethylbenzene	<0.00199	0.0996	0.0980	98	0.107	107	71-129	9	35	mg/kg	02.09.18 09:03	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.208	104	70-135	8	35	mg/kg	02.09.18 09:03	
o-Xylene	<0.00199	0.0996	0.0956	96	0.103	103	71-133	7	35	mg/kg	02.09.18 09:03	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		90		95		80-120	%	02.09.18 09:03
4-Bromofluorobenzene	106		109		119		80-120	%	02.09.18 09:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040874

MB Sample Id: 7639015-1-BLK

Matrix: Solid

LCS Sample Id: 7639015-1-BKS

Prep Method: SW5030B

Date Prep: 02.12.18

LCSD Sample Id: 7639015-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0928	93	0.0935	94	70-130	1	35	mg/kg	02.12.18 08:15	
Toluene	<0.00199	0.0994	0.0974	98	0.0987	99	70-130	1	35	mg/kg	02.12.18 08:15	
Ethylbenzene	<0.00199	0.0994	0.108	109	0.110	110	71-129	2	35	mg/kg	02.12.18 08:15	
m,p-Xylenes	<0.00398	0.199	0.213	107	0.217	109	70-135	2	35	mg/kg	02.12.18 08:15	
o-Xylene	<0.00199	0.0994	0.105	106	0.106	106	71-133	1	35	mg/kg	02.12.18 08:15	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		89		85		80-120	%	02.12.18 08:15
4-Bromofluorobenzene	98		115		120		80-120	%	02.12.18 08:15

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.

Barney BEF Federal #001/ 30-015-26799

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040661

Parent Sample Id: 575581-002

Matrix: Soil

MS Sample Id: 575581-002 S

Prep Method: SW5030B

Date Prep: 02.09.18

MSD Sample Id: 575581-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0671	67	0.0704	70	70-130	5	35	mg/kg	02.09.18 09:39	X
Toluene	<0.00200	0.100	0.0711	71	0.0740	73	70-130	4	35	mg/kg	02.09.18 09:39	
Ethylbenzene	<0.00200	0.100	0.0793	79	0.0821	81	71-129	3	35	mg/kg	02.09.18 09:39	
m,p-Xylenes	<0.00401	0.200	0.155	78	0.161	80	70-135	4	35	mg/kg	02.09.18 09:39	
o-Xylene	<0.00200	0.100	0.0783	78	0.0806	80	71-133	3	35	mg/kg	02.09.18 09:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		81		80-120	%	02.09.18 09:39
4-Bromofluorobenzene	109		113		80-120	%	02.09.18 09:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040874

Parent Sample Id: 575585-001

Matrix: Soil

MS Sample Id: 575585-001 S

Prep Method: SW5030B

Date Prep: 02.12.18

MSD Sample Id: 575585-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0837	84	0.0842	84	70-130	1	35	mg/kg	02.12.18 09:00	
Toluene	<0.00200	0.0998	0.0878	88	0.0898	90	70-130	2	35	mg/kg	02.12.18 09:00	
Ethylbenzene	<0.00200	0.0998	0.0959	96	0.0976	98	71-129	2	35	mg/kg	02.12.18 09:00	
m,p-Xylenes	<0.00399	0.200	0.190	95	0.192	96	70-135	1	35	mg/kg	02.12.18 09:00	
o-Xylene	<0.00200	0.0998	0.0920	92	0.0960	96	71-133	4	35	mg/kg	02.12.18 09:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	86		85		80-120	%	02.12.18 09:00
4-Bromofluorobenzene	116		115		80-120	%	02.12.18 09:00

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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575582

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: <u>LT Envisionment / Permian</u>				Project Name/Number: <u>Barney Ref Federal #001/30-015-26179</u>											
Company Address: <u>3300 N. Askeret Bldg I Suite 103</u>				Project Location: <u>NM</u>											
Email: <u>Abaker@TEAU.com</u> Phone No: <u>432-704-5178</u>				Invoice To: <u>XTO Energy - Kyle Litrell</u>											
Project Contact: <u>Adrian Baker</u>				PO Number: <u>3001526799</u>											
Sampler's Name: <u>Phron Williamson</u>															
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	551	6"	3/6/18	8:33	S	1									
2	552			8:35											
3	553			8:37											
4	554			8:40											
5	555			8:42											
6	556			8:45											
7	557			8:47											
8															
9															
10															
Turnaround Time (Business days) <u>NFE Acc</u>															
Data Deliverable Information															
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pkg raw data)															
<input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV															
<input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG-411															
<input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> Level II Report with TRRP checklist															
TAT Starts Day received by Lab, if received by 5:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:	
1		3/6/18 17:45		2		3/6/18 17:45		3		3/6/18 17:45		4		3/6/18 17:45	
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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 191134

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 191134
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Based on the dates in the report, final C-141, and file date; this report was submitted to the OCD prior to the current version of the release rule (19.15.29 NMAC effective 8/14/2018). This release has been closed under the closure standards that were in place prior to 8/14/2018.	2/27/2023