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> 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	NRM1935430604
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

SA905-191101-C-1410

Responsible Party XTO Energy	OGRID 5380	
Contact Name Kyle Littrell	Contact Telephone 432-221-7331	
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	Λ	

Location of Release Source

Latitude 32.535876

NAD 83 in decimal degrees to 5 decimal places)

Site Name Hat Mesa 32 State #2	Site Type Well Location
Date Release Discovered 10/21/2019	API# (if applicable) 30-025-34819 (Hat Mesa 32 State #002)

Unit Letter	Section	Township	Range	County	
С	32	208	33E	LEA	

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) 3.27	Volume Recovered (bbls) .50	
Produced Water	Volume Released (bbls) 6.64	Volume Recovered (bbls) 1.01	
	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 lease operator reported a buried poly flowline was found ruptured. Additional third party resources have been retained to assist in the remediation.

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Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM1935430604
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	N/A
🗌 Yes 🛛 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	

Initial Response

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

 \square 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.

Title: <u>SH&E Supervisor</u>
Date: _11/1/2019
Telephone:
Date: <u>12/20/2019</u>

Location:	Hat Mesa 32 State # 2 (30	-025-34819)
Spill Date:	10/21/2019	
	POOLED AREA	
Approximate Area =		2694.00 sq. ft.
Average Saturation	(or depth) of spill =	1.00 inche
Approximate oil % =		33.00
Average Porosity Fa	ctor =	0.15
	VOLUME OF LEAK	
Total Oil =		2.47 bbls
Total Produced Wat	er =	5.02 bbls
	HEAVY SPRAY	
Approximate Area =		1632.00 sq. ft.
Average Saturation	(or depth) of spill =	0.50 inche
Approximate oil % = Average Porosity Fa		33.00
	VOLUME OF LEAK	
Total Oil =		0.60 bbls
Total Produced Wat		1.22 bbls
	LIGHT SPRAY	
Approximate Area =		1071.00 sq. ft.
Average Saturation	(or depth) of spill =	0.25 inche
Approximate oil % =		33.00
Average Porosity Fa	ctor =	0.15
1	VOLUME OF LEAK	
Total Oil =		0.20 bbls
Total Produced Water =		0.40 bbls
	TOTAL VOLUME OF L	EAK
Total Oil =		3.27 bbls
Total Produced Wat	ter =	6.64 bbls
	VOLUME RECOVERED	

	TINED
Total Oil =	0.50 bbls
Total Produced Water =	1.01 bbls

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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	Yes X 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 X 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.
- X Field data
- X
 Data table of soil contaminant concentration data
- Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- **X** 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.

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Page 4 Oil Conservation Division Incident ID NRM1935430 District RP Facility ID Application ID Incident ID NRM1935430 Incident ID NRM1935430 </th <th>Page 5 of 19.</th> <th></th> <th></th> <th></th> <th>w Mexico</th> <th colspan="4">creived by OCD: 10/22/2020 4:56:19 PM State of New Mexi</th>	Page 5 of 19.				w Mexico	creived by OCD: 10/22/2020 4:56:19 PM State of New Mexi			
Image: Construct Right State Right	0604	NRM19354306	Incident ID						
Application ID I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may er public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operation failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or loca and/or regulations. Printed Name: Kyle Littrell Title: SH&E Supervisor Signature: Date: 10/15/2020			District RP		tion Division	Oil Conservation I	Page 4		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD ruless regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may er public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operation failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or loca and/or regulations. Printed Name: Kyle Littrell Title: SH&E Supervisor Signature: Date: 10/15/2020			Facility ID						
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	ndanger ns have nt. In	ases which may enda ould their operations b or the environment. eral, state, or local la	orrective actions for relea e operator of liability sho ce water, human health liance with any other fed Supervisor	ns and perform co oes not relieve the groundwater, surfact nsibility for compli- e:SH&E S e:10/15/202	certain release notifications an 141 report by the OCD does r ion that pose a threat to groun eve the operator of responsibil Title: Date:	ors are required to report and/or file certain nvironment. The acceptance of a C-141 re- nvestigate and remediate contamination that ance of a C-141 report does not relieve the Kyle Littrell	regulations all operators ar public health or the enviro failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Kyle Lit		
OCD Only Received by: Date:				Date:	I				

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Oil Conservation Division

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Incident ID	NRM1935430604	
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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.

<u>Closure Report Attachment Checklist</u> : Each of the following	items must be included in the closure report.					
\square 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 OD	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.					
Printed Name:Kyle Littrell Signature:	Title:SH&E Supervisor					
Signature:	Date: <u>10/15/2020</u>					
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331					
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by:	Date:					
Printed Name:	Title:					



A proud member of WSP

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

October 20, 2020

New Mexico Oil Conservation Division District 1 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure Request Hat Mesa 32 State #2 Incident Number NRM1935430604 Lea County, New Mexico

To Whom It May Concern:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Hat Mesa 32 State #2 (Site) located in Unit C, Section 32, Township 20 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of crude oil and produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM1935430604.

RELEASE BACKGROUND

On October 21, 2019, a flowline ruptured, resulting in the release of 3.27 barrels (bbls) of crude oil and 6.64 bbls of produced water into the surrounding pasture. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 0.50 bbls of crude oil and 1.01 bbls of produced water were recovered. The damaged section of the flowline was repaired. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on November 1, 2019. The release was assigned Incident Number NRM1935430604.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323158103425301, located approximately 1.60 miles west of the Site. The groundwater well has a depth to groundwater of 44 feet bgs and a total depth of 50 feet bgs. All wells used for depth



to groundwater determination are depicted on Figure 1 and the associated well water records are included in Attachment 1. The closest continuously flowing water or significant watercourse to the Site is a freshwater emergent wetland located approximately 1,066 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the site characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 12, 2019, LTE personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected six preliminary assessment soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02 through SS06 indicated that chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil sample SS01 indicated that benzene, BTEX, TPH, and chloride concentrations



were compliant with Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

Further delineation and remediation efforts were postponed. Per 19.15.29.12.B. (1) NMAC, three extensions for submission of a Remediation Plan or Closure Request were granted. The initial extension was approved on January, 16, 2020, the second was approved on April 2, 2020 extending the deadline to July 19, 2020. The final extension was approved on July 6, 2020 by the NMOCD office extending the deadline to October 22, 2020.

Between July 15, 2020 and July 28, 2020, LTE personnel returned to the site to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Two potholes (PH01 and PH02) were advanced via trackhoe to depths ranging from 1 foot to 2 feet bgs in the southern portion of the excavation to confirm the absence of impacted soil near preliminary soil sample SS01. Discrete delineation soil samples were collected from each pothole at depths ranging from 1 foot to 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The potholes and delineation soil sample locations are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

Based on field screening activities and laboratory analytical results for the preliminary and delineation soil samples, excavation activities were completed to remove impacted soil in the area surrounding preliminary soil samples SS02 through SS06. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. The excavation was completed to depths ranging from 1 foot to 2.5 feet bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples at least every 200 square feet from the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite samples FS01 through FS25, FS02A, FS03A, FS05A, and FS20A were collected from the floor of the excavation from depths ranging from 1 foot to 2.5 feet bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are presented on Figure 4. Photographic documentation was conducted during the visits to the Site. A photographic log is included in Attachment 3.



The excavation measured approximately 4,900 square feet. A total of approximately 230 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS02 through SS06 indicated that chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil sample SS01 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH02 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with Closure Criteria.

Laboratory analytical results for excavation samples FS01, FS02A, FS03A, FS04, FS05A, FS06 through FS19, FS20A, and FS21 through FS25, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria.

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

CONCLUSIONS

Initial and follow-up response efforts as a result of the October 21, 2019 crude oil and produced water release included removal of freestanding fluid by a hydrovac truck, excavation and removal of impacted soil, and collection of confirmation soil samples. Preliminary soil samples SS01 through SS06 were collected from within the release extent. Laboratory analytical results for soil samples SS02 through SS06 indicated that chloride concentrations exceeded the Closure Criteria in the northern portion of the release extent. Based on the analytical results, the impacted soil was excavated to depths ranging from 1 foot bgs to 2.5 feet bgs. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required. The excavation encompassed an area of approximately 4,900 square feet in the pasture and a total volume of 230 cubic yards of soil was removed.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Based on the confirmation soil sample analytical results, XTO respectfully requests NFA for Incident Number NRM1935430604.



If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Kaeei Jennings

Kalei Jennings Project Environmental Scientist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office Robert Hamlet, NMOCD Victoria Venegas, NMOCD

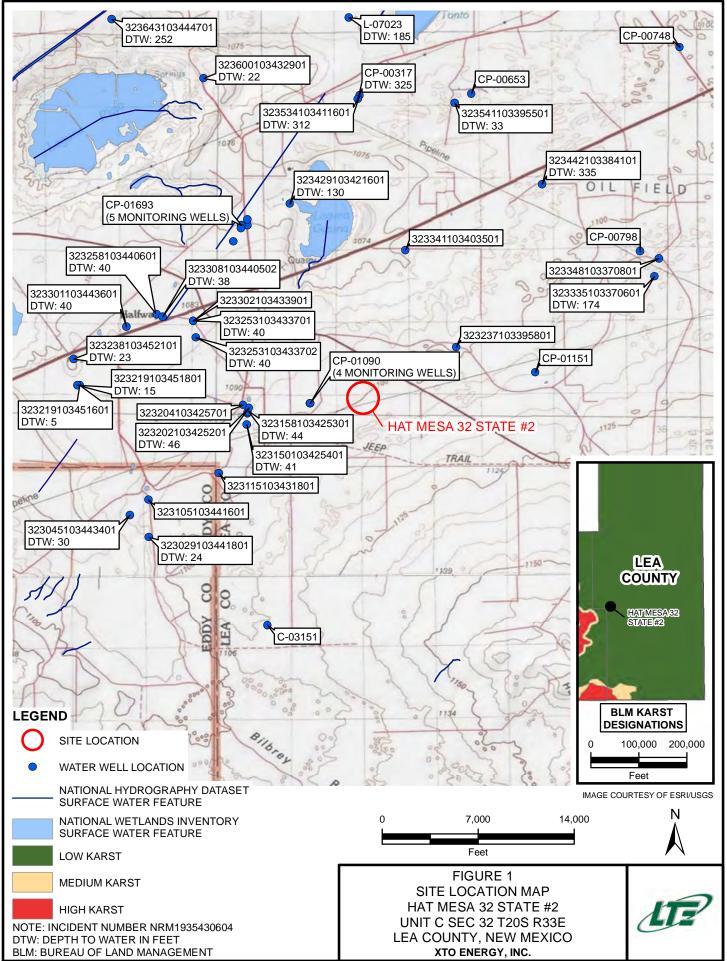
Appendices:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Water Well Records
- Attachment 2 Lithologic/Soil Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

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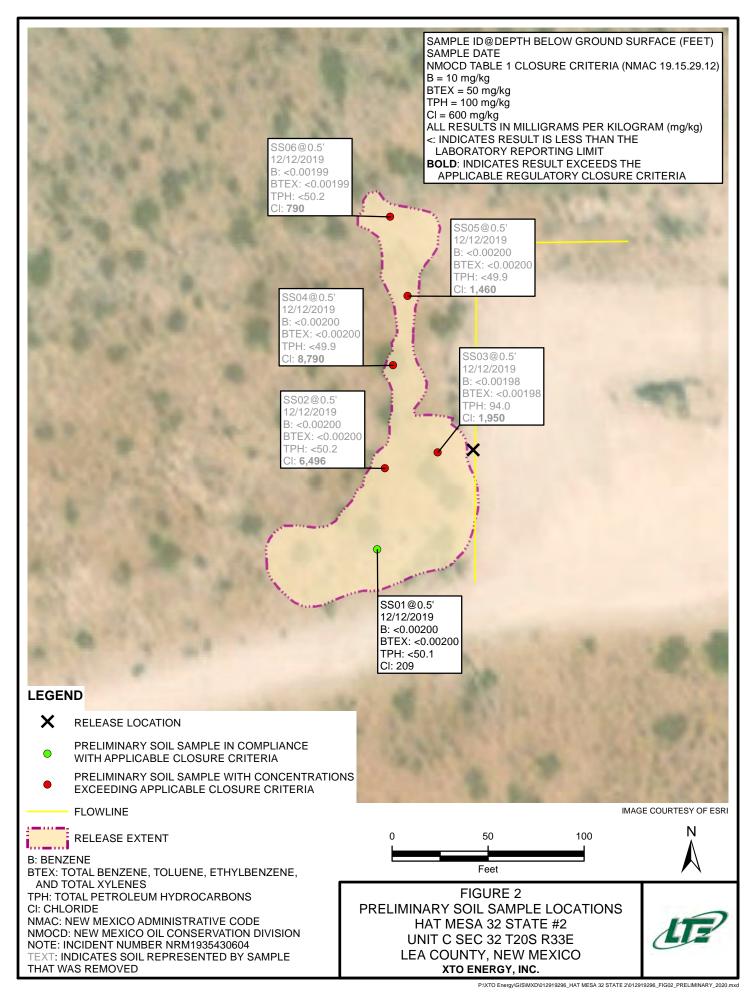
FIGURES

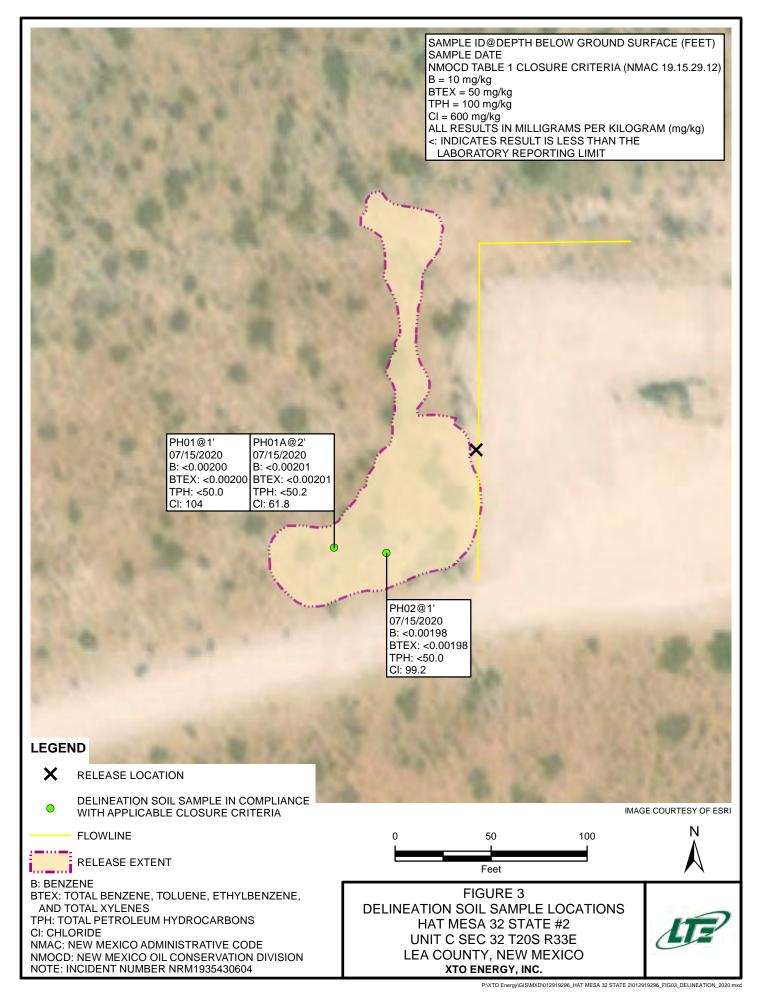


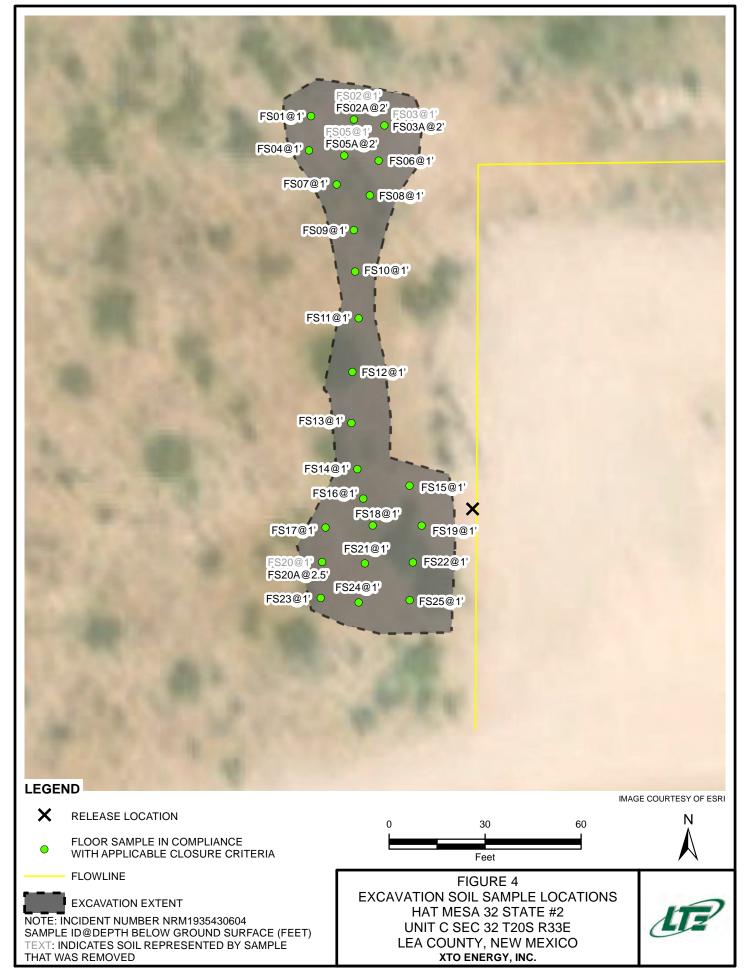


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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

HAT MESA 32 STATE #2 INCIDENT ID # NRM1935430604 LEA COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SS01	0.5	12/12/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	209
SS02	0.5	12/12/2019	<0.00200	< 0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	6,490
SS03	0.5	12/12/2019	< 0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	94.0	<49.8	94.0	94.0	1,950
SS04	0.5	12/12/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	8,790
SS05	0.5	12/12/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,460
SS06	0.5	12/12/2019	< 0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	790
PH01	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	104
PH01A	2	07/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	61.8
PH02	1	07/15/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	99.2
FS01	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	253
FS02	1	07/15/2020	< 0.00202	<0.00202	< 0.00202	< 0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,370
FS02A	2	07/28/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	346
FS03	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	771
FS03A	2	07/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	378
FS04	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	129
FS05	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	70.7	<49.8	70.7	70.7	1,040
FS05A	2	07/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	315
FS06	1	07/15/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	255
FS07	1	07/15/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	153
FS08	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	424
FS09	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	142
FS10	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	171
FS11	1	07/15/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	215



TABLE 1 SOIL ANALYTICAL RESULTS

HAT MESA 32 STATE #2 INCIDENT ID # NRM1935430604 LEA COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
FS12	1	07/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	190
FS13	1	07/15/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	296
FS14	1	07/15/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	285
FS15	1	07/15/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	170
FS16	1	07/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	129
FS17	1	07/15/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	334
FS18	1	07/15/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	81.1	<49.9	81.1	81.1	380
FS19	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	69.0	<50.0	69.0	69.0	526
FS20	1	07/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	70.3	<49.9	70.3	70.3	622
FS20A	2.5	07/28/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	300
FS21	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	342
FS22	1	07/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	326
FS23	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	57.1	<50.1	57.1	57.1	369
FS24	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	360
FS25	1	07/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	342

Notes:

- bgs below ground surface
- BTEX benzene, toluene, ethylbenzene, and total xylenes
- DRO diesel range organics
- GRO gasoline range organics
- mg/kg milligrams per kilogram

- MRO motor oil range organics
- NMAC New Mexico Administrative Code
- NMOCD New Mexico Oil Conservation Division
- NE not established
- TPH total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

TEXT -indicates soil was removed during excavation activities



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site_no list =

• 323029103441801

Minimum number of levels = 1

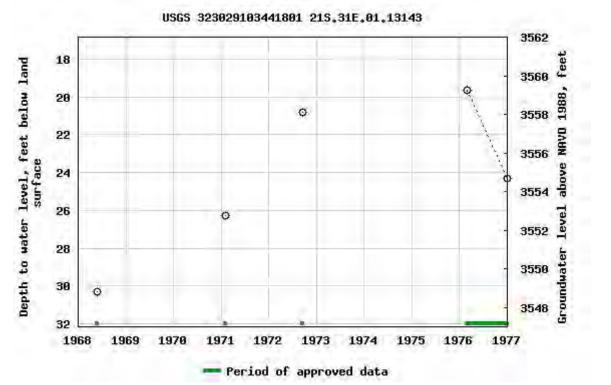
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USGS 323029103441801 21S.31E.01.13143

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°30'29", Longitude 103°44'18" NAD27 Land-surface elevation 3,579 feet above NAVD88 The depth of the well is 36 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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USGS	Water	Resources

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 ✓

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Minimum number of levels = 1

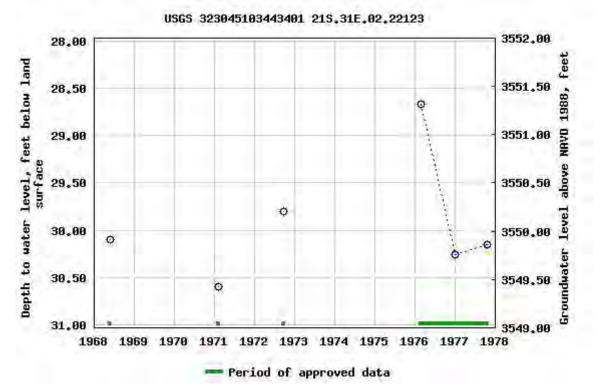
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USGS 323045103443401 21S.31E.02.22123

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°30'45", Longitude 103°44'34" NAD27 Land-surface elevation 3,580 feet above NAVD88 The depth of the well is 32 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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National Water Information System: Web Interface

USGS	Water	Resources

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Minimum number of levels = 1

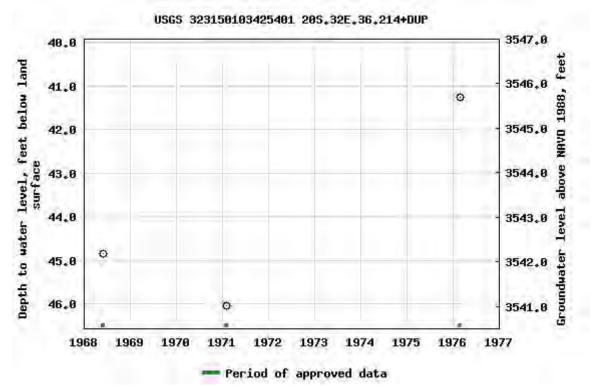
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USGS 323150103425401 20S.32E.36.214+DUP

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°31'50", Longitude 103°42'54" NAD27 Land-surface elevation 3,587 feet above NAVD88

Table of data	
Tab-separated data	
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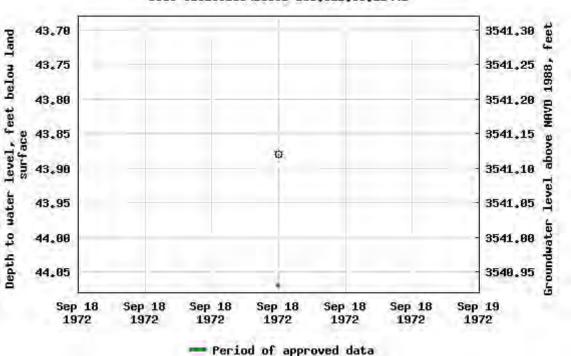
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USGS 323158103425301 20S.32E.36.21442

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°31'58", Longitude 103°42'53" NAD27 Land-surface elevation 3,585 feet above NAVD88 The depth of the well is 50 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
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USGS 323158103425301 205,32E,36,21442

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Data Category: G Groundwater ✔ U

Geographic Area: United States

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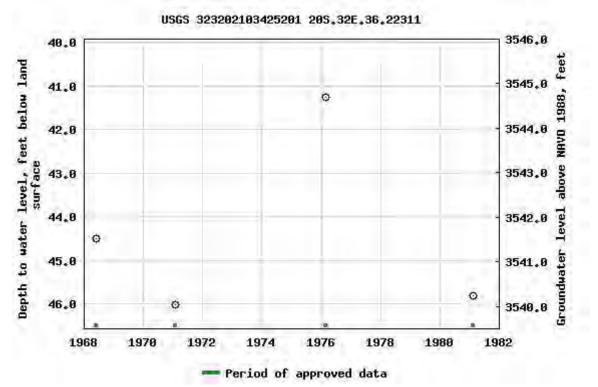
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USGS 323202103425201 20S.32E.36.22311

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°32'02", Longitude 103°42'52" NAD27 Land-surface elevation 3,586 feet above NAVD88 The depth of the well is 65 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
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Geographic Area: United States

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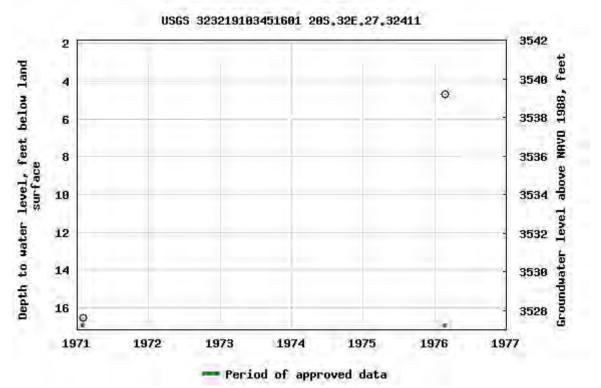
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USGS 323219103451601 20S.32E.27.32411

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°32'19", Longitude 103°45'16" NAD27 Land-surface elevation 3,544 feet above NAVD88 The depth of the well is 75 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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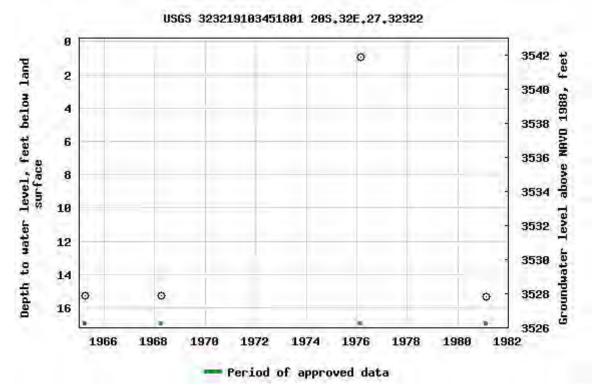
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USGS 323219103451801 20S.32E.27.32322

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Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°32'19", Longitude 103°45'18" NAD27 Land-surface elevation 3,543 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
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Graph of data	
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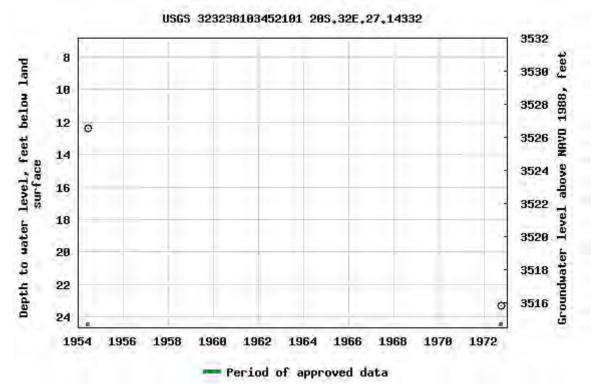
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USGS 323238103452101 20S.32E.27.14332

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°32'38", Longitude 103°45'21" NAD27 Land-surface elevation 3,539 feet above NAVD88 The depth of the well is 25 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data
Tab-separated data
Graph of data
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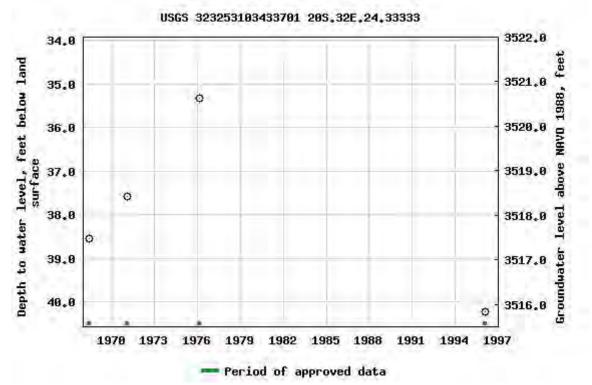
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USGS 323253103433701 20S.32E.24.33333

Available data for this site Groundwater: Field measurements V

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°33'05.3", Longitude 103°43'40.7" NAD83 Land-surface elevation 3,556 feet above NAVD88 The depth of the well is 65 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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Minimum number of levels = 1

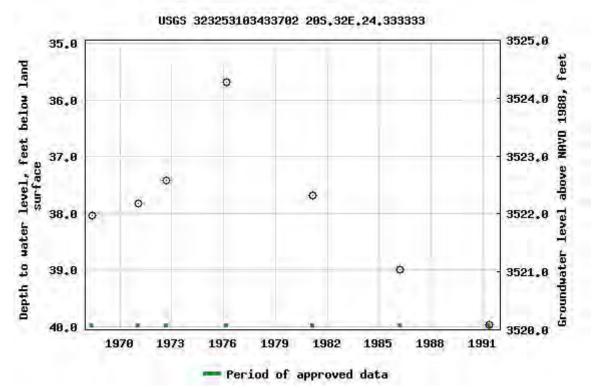
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USGS 323253103433702 20S.32E.24.333333

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°32'53", Longitude 103°43'37" NAD27 Land-surface elevation 3,560 feet above NAVD88 The depth of the well is 65 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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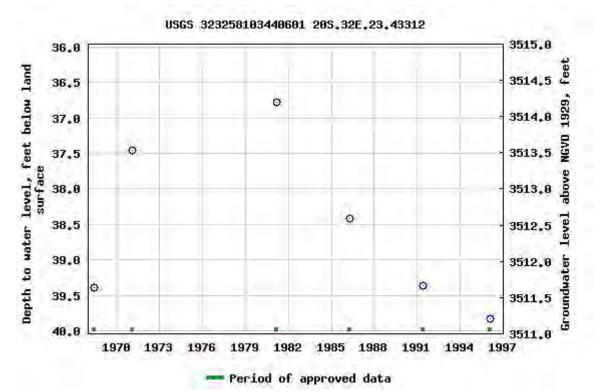
USGS 323258103440601 20S.32E.23.43312

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°33'10", Longitude 103°44'10" NAD27 Land-surface elevation 3,551.00 feet above NGVD29 The depth of the well is 78 feet below land surface. This well is completed in the Chinle Formation (231CHNL) local aquifer.

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Tab-separated data
Graph of data
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Data Category:Geographic Area:GroundwaterVGO

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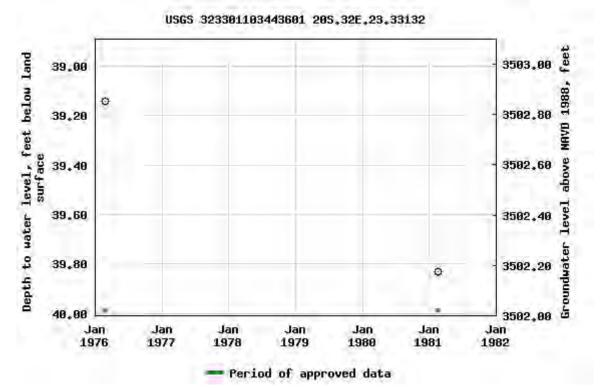
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USGS 323301103443601 20S.32E.23.33132

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Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°33'01", Longitude 103°44'36" NAD27 Land-surface elevation 3,542 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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USGS	Water	Resources	

Data Category: Geographic Area: Groundwater **United States**

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

323308103440502

Minimum number of levels = 1

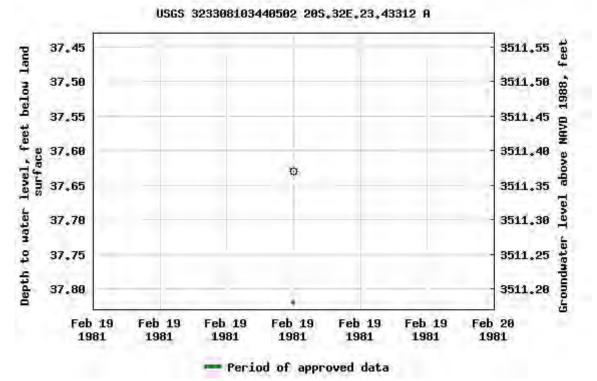
Save file of selected sites to local disk for future upload

USGS 323308103440502 20S.32E.23.43312 A

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°33'08", Longitude 103°44'05" NAD27 Land-surface elevation 3,549 feet above NAVD88 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-10-14 13:22:11 EDT 0.66 0.54 nadww01





National Water Information System: Web Interface

USGS	Water	Resources	

Data Category:Geographic Area:GroundwaterVGo

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Search Results -- 1 sites found

site_no list =

• 323335103370601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323335103370601 20S.33E.24.12411

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°33'35", Longitude 103°37'06" NAD27 Land-surface elevation 3,641 feet above NAVD88 The depth of the well is 676 feet below land surface. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

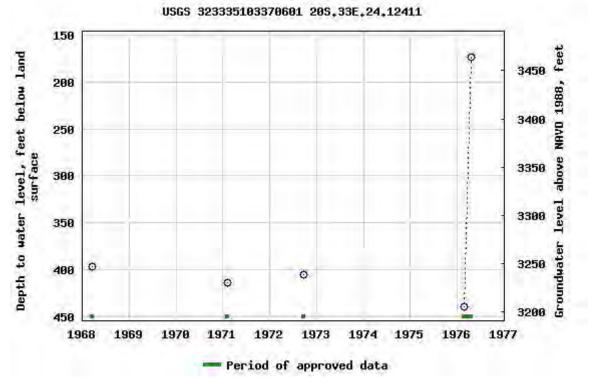
Output formats

<u>Table of data</u>

Tab-separated data

Graph of data

Reselect period



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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-10-14 13:21:41 EDT 0.64 0.55 nadww01





National Water Information System: Web Interface

USGS	Water	Resources
		1100001000

Data Category: Groundwater Geographic Area: United States

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Search Results -- 1 sites found

site_no list =

• 323429103421601

Minimum number of levels = 1

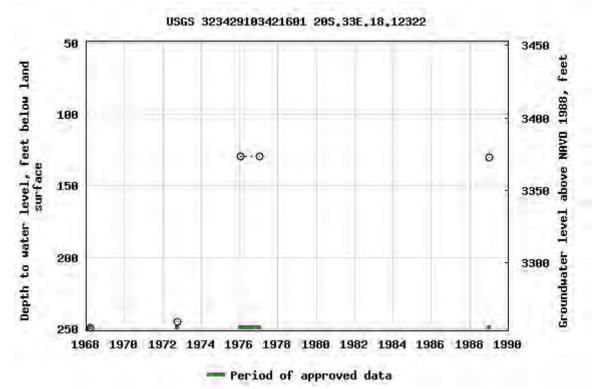
Save file of selected sites to local disk for future upload

USGS 323429103421601 20S.33E.18.12322

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°34'29", Longitude 103°42'16" NAD27 Land-surface elevation 3,503 feet above NAVD88 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-10-14 13:19:49 EDT 0.64 0.51 nadww01





National Water Information System: Web Interface

USGS	Water	Resources	

Data Category: Groundwater Geographic Area: United States

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Search Results -- 1 sites found

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• 323442103384101

Minimum number of levels = 1

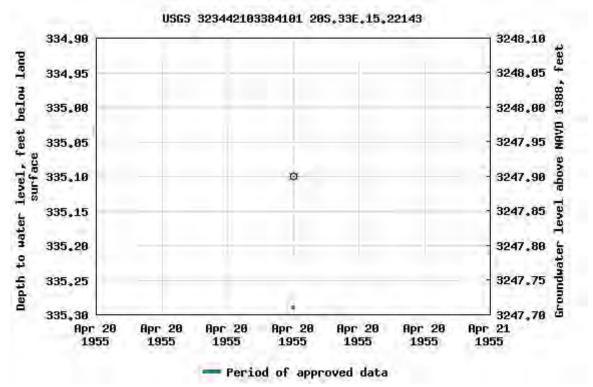
Save file of selected sites to local disk for future upload

USGS 323442103384101 20S.33E.15.22143

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°34'42", Longitude 103°38'41" NAD27 Land-surface elevation 3,583 feet above NAVD88 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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National Water Information System: Web Interface

USGS	Water	Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 United States
 ✓

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Search Results -- 1 sites found

site_no list =

• 323534103411601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323534103411601 20S.33E.05.34321

Available data for this site Groundwater: Field measurements V

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°35'47.4", Longitude 103°41'17.9" NAD83 Land-surface elevation 3,551 feet above NAVD88 The depth of the well is 680 feet below land surface. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

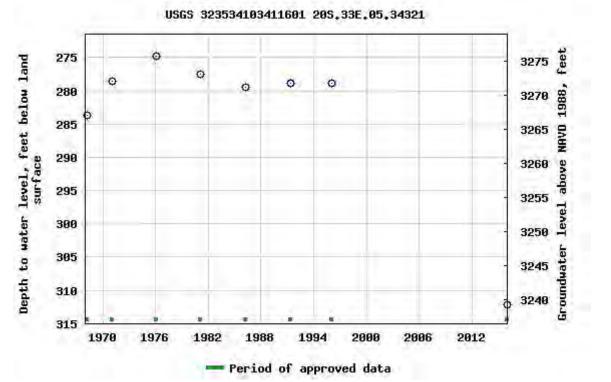
Output formats

<u>Table of data</u>

Tab-separated data

Graph of data

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National Water Information System: Web Interface

USGS	Water	Resources	

Data Category: Groundwater Geographic Area: United States

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Search Results -- 1 sites found

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• 323541103395501

Minimum number of levels = 1

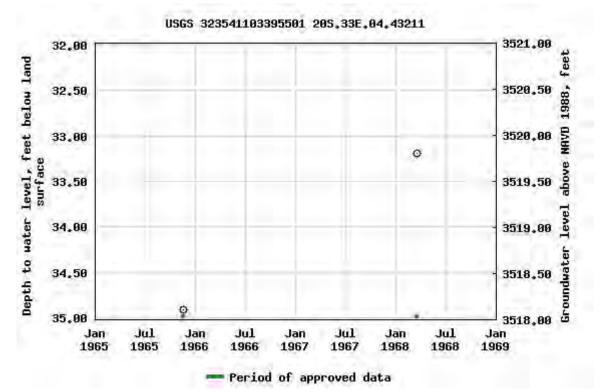
Save file of selected sites to local disk for future upload

USGS 323541103395501 20S.33E.04.43211

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°35'41", Longitude 103°39'55" NAD27 Land-surface elevation 3,553 feet above NAVD88 The depth of the well is 58 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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USGS	Water	Resources	

Data Category:Geographic Area:GroundwaterV

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Search Results -- 1 sites found

site_no list =

• 323600103432901

Minimum number of levels = 1

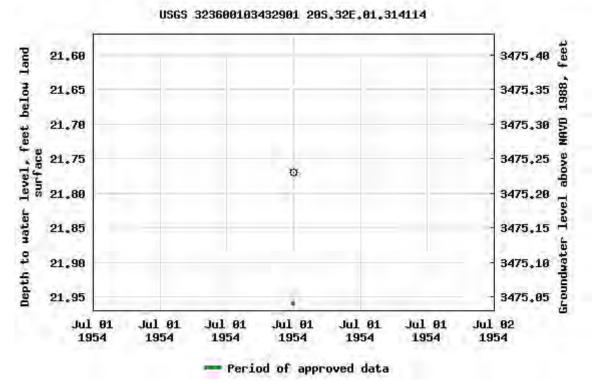
Save file of selected sites to local disk for future upload

USGS 323600103432901 20S.32E.01.314114

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°36'00", Longitude 103°43'29" NAD27 Land-surface elevation 3,497 feet above NAVD88 The depth of the well is 30 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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National Water Information System: Web Interface

USGS	Water	Resou	rces

Data Category:Geographic Area:Groundwater✔United States

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site_no list =

• 323643103444701

Minimum number of levels = 1

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USGS 323643103444701 19S.32E.34.421442

Available data for this site Groundwater: Field measurements V

Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°36'43", Longitude 103°44'47" NAD27 Land-surface elevation 3,553 feet above NAVD88 The depth of the well is 575 feet below land surface. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

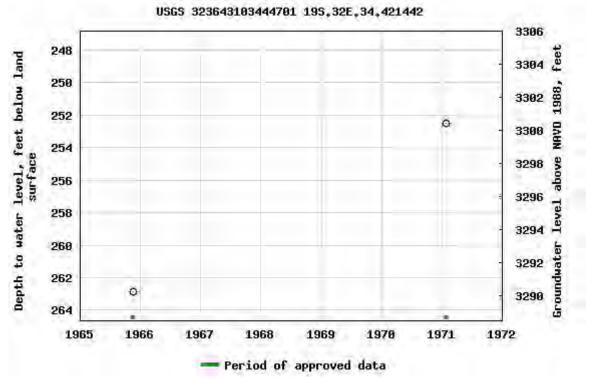
Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period



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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-10-14 13:35:55 EDT 0.65 0.6 nadww01





New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarters a	are 1=N	W 2=]	NE 3=S	W 4=SE)				
			(quarters	are sm	allest t	o larges	t)	(NAD83 U	TM in meters)		
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	Χ	Y		
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Driller Lice	ense:	46	Driller Co	ompa	ny:	AB	BOTT I	BROTHERS	S COMPANY		
Driller Nan	ne:	ABBOTT, MURI	RIEL								
Drill Start	Date:	02/05/1966	Drill Fini	sh Da	te:	02	2/17/196	66 P I	ug Date:	04/20/1967	
Log File Da	ate:	02/24/1966	PCW Rev	v Date	:			So	ource:	Shallow	
Pump Type:			Pipe Disc	Pipe Discharge Size:					Estimated Yield:		
Casing Size	:	7.00	Depth We	ell:		680 feet		De	Depth Water:		
K	Wate	er Bearing Stratif	ications:	Та	p E	ottom	Descr	ription			
				52	20	540	Sands	stone/Grave	l/Conglomerate	;	
				62	25	645	Sands	stone/Gravel	l/Conglomerate	;	
				66	50	675	Sands	stone/Grave	l/Conglomerate	;	
X		Casing Perf	orations:	То	p B	ottom					
				51	5	575					

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/14/20 11:14 AM

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer Point of Diversion Summary

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Well Tag	POD	Number		16 Q4				X	Y	
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Driller Na	me:	MURRELL ABE	вотт							
Drill Start	Date:	11/12/1970	Drill Fi	nish Da	te:	1	1/15/197	0 P I	ug Date:	
Log File D	ate:	11/19/1970	PCW R	cv Date	:			So	urce:	Shallow
Pump Type:			Pipe Dis	Pipe Discharge Size:					Estimated Yield:	
Casing Size: 7.00		Depth V	Depth Well: 2				62 feet Depth Water:			
X	Wate	r Bearing Stratif	fications:	To	рB	ottom	Descr	iption		
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				20	0	260	1			

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY

Received by OCD: 10/22/2020 4:56:49 PM



17	2	508 Wes	ronmenta st Stevens	Street		BH or PH Name: PH of	Date:
0		Carlsbad, I	Vew Mexico	88220		Site Name: Hat Me	
A proud memb of WSP	per					RP or Incident Number: LTE Job Number:	NKM1935430604
I I	THOLOG	IC /SOI	LSAMPI	INGL)G	Logged By: SL	Method: Track hoe
Lat/Long:	LITHOLOGIC / SOIL SAMPLING LOG Long: Field Screening:				Hole Diameter:	Total Depth:	
-	HACH Chloride strips, PID						1
Comments:	100	2'					
Moisture Content Chloride (ppm) Vapor	(ppm) Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Liti	hology/Remarks
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				3 4 5 6 7 8 9 10 11		TDez	

17	LT Environ 508 West St	mental, Inc. tevens Street		BH or PH Name: PHD 2	Date: 7.15 · 20		
A proud member	Carlsbad, New	tevens Štreet v Mexico 88220		Site Name: Hat Mesa 32 state #2 RP or Incident Number: NRM 1935430664			
of WSP			LTE Job Number:	1			
LITHO	DLOGIC / SOIL S	SAMPLING LO	G	Logged By: SL	Method: Trackhoe		
_at/Long:		eld Screening:	Hole Diameter:	Total Depth:			
Comments:		ACH Chloride strips,	PID				
	The 2'		×				
Monsture Content Chloride (ppm) Vapor (ppm)	inii Iqu I	Example Depth ft bgs) Depth (ft bgs)	USCS/Rock Symbol	Litl	hology/Remarks		
			0	-layer sandilow	plasticity flow cohesion, stain, suomn		
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				TDEZI			

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Photograph 1: Western view of spill area.



Photograph 3: Northwestern view of spill area.

PHOTOGRAPHIC LOG



Photograph 2: Northwestern view of spill and pad.



Photograph 4: Northeastern view of spill and pad.

Hat Mesa 32 State #2 Incident Number NRM1935430604 Photographs Taken: October 19, 2019 – July 28

Page 1 of 3





Photograph 5: Western view of spill area.



Photograph 7: PH02 area.

PHOTOGRAPHIC LOG



Photograph 6: PH01 area.



Photograph 8: PH02 area.



Hat Mesa 32 State #2 Incident Number NRM1935430604 Photographs Taken: October 19, 2019 – July 28 . *Released to Imaging: 3/23/2021 1:38:37 PM*

PHOTOGRAPHIC LOG



Photograph 9: Northern view of excavation area.



Photograph 11: Western view of excavation near FS02-FS05.



Photograph 10: Southern view of excavation area.



Photograph 12: Replace with backfill photo.



F

Hat Mesa 32 State #2 Incident Number NRM1935430604 Photographs Taken: October 19, 2019 – July 28 . *Released to Imaging: 3/23/2021 1:38:37 PM* Received by OCD: 10/22/2020 4:56:49 PM

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



for LT Environmental, Inc.

Project Manager: Dan Moir

Hat Mesa 32 State #2

012919296

17-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 10/22/2020 4:56:19 PM



17-DEC-19

Project Manager: Dan Moir LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 646264 Hat Mesa 32 State #2 Project Address:

Dan Moir:

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) 646264. 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. 646264 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,

Jession Vermer

Jessica Kramer **Project Assistant**

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 646264

LT Environmental, Inc., Arvada, CO

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	12-12-19 10:35	0.5 ft	646264-001
SS02	S	12-12-19 10:40	0.5 ft	646264-002
SS03	S	12-12-19 10:45	0.5 ft	646264-003
SS04	S	12-12-19 10:50	0.5 ft	646264-004
SS05	S	12-12-19 10:55	0.5 ft	646264-005
SS06	S	12-12-19 11:00	0.5 ft	646264-006



CASE NARRATIVE

Page 74 of 195

Client Name: LT Environmental, Inc. Project Name: Hat Mesa 32 State #2

 Project ID:
 012919296

 Work Order Number(s):
 646264

Report Date: 17-DEC-19 Date Received: 12/13/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3110528 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3110553 Chloride by EPA 300

Lab Sample ID 646373-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646264-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





Project Id:012919296Contact:Dan Moir

Project Location:

Certificate of Analysis Summary 646264

LT Environmental, Inc., Arvada, CO Project Name: Hat Mesa 32 State #2 Page 75 of 195

Date Received in Lab:Fri Dec-13-19 09:05 amReport Date:17-DEC-19Project Manager:Jessica Kramer

	Lab Id:	646264-0	001	646264-	002	646264-0	003	646264-	004	646264-	005	646264-0	006
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	
Analysis Kequesieu	Depth:	0.5- ft	t	0.5- f	t	0.5- ft		0.5- f	t	0.5- f	t 🛛	0.5- f	t
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	Dec-12-19	10:35	Dec-12-19	10:40	Dec-12-19	10:45	Dec-12-19	10:50	Dec-12-19	10:55	Dec-12-19 11:00	
BTEX by EPA 8021B	Extracted:	Dec-13-19	11:51	Dec-13-19	11:51	Dec-13-19	11:51	Dec-13-19	11:51	Dec-13-19	11:51	Dec-13-19	11:51
	Analyzed:	Dec-13-19	14:39	Dec-13-19	14:56	Dec-13-19	15:14	Dec-13-19	15:31	Dec-13-19	15:48	Dec-13-19	16:06
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399	<0.00397	0.00397	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00398	0.00398
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	Dec-13-19	11:55	Dec-13-19	11:55	Dec-13-19	11:55	Dec-13-19	11:55	Dec-13-19	11:55	Dec-13-19	11:55
	Analyzed:	Dec-13-19	16:50	Dec-13-19	17:07	Dec-13-19	17:13	Dec-13-19 17:19		Dec-13-19 17:25		Dec-13-19 17:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		209	9.94	6490 D	199	1950 D	99.2	8790 D	200	1460	9.98	790	9.92
TPH by SW8015 Mod	Extracted:	Dec-13-19	13:00	Dec-13-19	11:30	Dec-13-19	13:00	Dec-13-19	13:00	Dec-13-19	13:00	Dec-13-19	13:00
	Analyzed:	Dec-13-19	16:33	Dec-13-19	15:31	Dec-13-19	17:13	Dec-13-19	17:13	Dec-13-19	17:33	Dec-13-19	17:33
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.2	50.2
Diesel Range Organics (DRO)		<50.1	50.1	< 50.2	50.2	94.0	49.8	<49.9	49.9	<49.9	49.9	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	< 50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.2	50.2
Total GRO-DRO		<50.1	50.1	< 50.2	50.2	94.0	49.8	<49.9	49.9	<49.9	49.9	<50.2	50.2
Total TPH		<50.1	50.1	<50.2	50.2	94.0	49.8	<49.9	49.9	<49.9	49.9	<50.2	50.2

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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

fession kramer

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

Analytical Method: Ch					Date Received:12.13.19 09.05 Sample Depth: 0.5 ft				
Tech: MAB Analyst: MAB Seq Number: 3110553		Date Prep:	12.13.19 11.55	ç	Prep Method: E30 % Moisture: Basis: Wet	0P : Weight			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	209	9.94	mg/kg	12.13.19 16.50		1		

Analytical Method:TPH by SW801.Tech:DTHAnalyst:DTHSeq Number:3110565	5 Mod	Date Pre	р: 12.13	.19 13.00	9/	Prep Method: SW 6 Moisture: Basis: We	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	12.13.19 16.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	12.13.19 16.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	12.13.19 16.33	U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	12.13.19 16.33	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	12.13.19 16.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	12.13.19 16.33		
o-Terphenyl		84-15-1	111	%	70-135	12.13.19 16.33		



LT Environmental, Inc., Arvada, CO

Sample Id: SS01	Matrix: Soil	Date Received:12.13.19 09.05
Lab Sample Id: 646264-001	Date Collected: 12.12.19 10.35	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight
Seq Number: 3110528		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.13.19 14.39	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.13.19 14.39		
4-Bromofluorobenzene		460-00-4	98	%	70-130	12.13.19 14.39		



LT Environmental, Inc., Arvada, CO

Hat Mesa 32 State #2

Sample Id: SS02		Matrix:	Soil		Date Received:12.	13.19 09.0	5
Lab Sample Id: 646264-002		Date Collec	ted: 12.12.19 10.40		Sample Depth: 0.5	ft	
Analytical Method: Chloride by EPA	300				Prep Method: E30	00P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	12.13.19 11.55		Basis: We	t Weight	
Seq Number: 3110553							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6490	199	mg/kg	12.16.19 10.45	D	20

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: SW	/8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Prep	b: 12.13.1	9 11.30	В	asis: We	t Weight	
Seq Number: 3110481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.13.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	12.13.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	12.13.19 15.31	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	12.13.19 15.31	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	12.13.19 15.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	12.13.19 15.31		

115

%

70-135

12.13.19 15.31

84-15-1

o-Terphenyl

.



LT Environmental, Inc., Arvada, CO

Sample Id: SS02	Matrix: Soil	Date Received:12.13.19 09.05
Lab Sample Id: 646264-002	Date Collected: 12.12.19 10.40	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight
Seq Number: 3110528		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.13.19 14.56	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 14.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.13.19 14.56		
4-Bromofluorobenzene		460-00-4	101	%	70-130	12.13.19 14.56		



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS03 d: 646264-003		Matrix: Date Colle	Soil cted: 12.12.19 10.45		Date Received:12. Sample Depth:0.5		5
Analytical Me	ethod: Chloride by EPA	300			I	Prep Method: E30	00P	
Tech:	MAB				ç	% Moisture:		
Analyst:	MAB		Date Prep:	12.13.19 11.55	I	Basis: We	t Weight	
Seq Number:	3110553							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1950	99.2	mg/kg	12.16.19 10.51	D	10

Analytical Method: TPH by SW801 Tech: DTH	5 Mod				Prep Method: SW % Moisture:	8015P	
Analyst: DTH		Date Prep:	12.13.19 13.00]	Basis: We	t Weight	
Seq Number: 3110565							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.13.19 17.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	94.0	49.8	mg/kg	12.13.19 17.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.13.19 17.13	U	1
Total GRO-DRO	PHC628	94.0	49.8	mg/kg	12.13.19 17.13		1
Total TPH	PHC635	94.0	49.8	mg/kg	12.13.19 17.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	12.13.19 17.13	
o-Terphenyl	84-15-1	121	%	70-135	12.13.19 17.13	



LT Environmental, Inc., Arvada, CO

Sample Id: SS03	Matrix: Soil	Date Received:12.13.19 09.05		
Lab Sample Id: 646264-003	Date Collected: 12.12.19 10.45	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight		
Seq Number: 3110528				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.13.19 15.14	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.13.19 15.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	12.13.19 15.14		
4-Bromofluorobenzene		460-00-4	96	%	70-130	12.13.19 15.14		



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS04 d: 646264-004		Matrix: Date Collec	Soil cted: 12.12.19 10.50		Date Received:12.13.19 09.05 Sample Depth: 0.5 ft		
Analytical Me	ethod: Chloride by EPA	300			I	Prep Method: E30	00P	
Tech:	MAB				ç	% Moisture:		
Analyst:	MAB		Date Prep:	12.13.19 11.55	I	Basis: We	t Weight	
Seq Number:	3110553							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	8790	200	mg/kg	12.16.19 10.56	D	20

Analytical Method: TPH by SW801 Tech: DTH	Prep Method: SW8015P % Moisture:						
Analyst: DTH		Date Prep:	12.13.19 13.00	E	Basis: We	t Weight	
Seq Number: 3110565							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.13.19 17.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.13.19 17.13	U	1

GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.13.19 17.13	U	1	
ГРН	PHC635	<49.9	49.9		mg/kg	12.13.19 17.13	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
-Chlorooctane		111-85-3	108	%	70-135	12.13.19 17.13			
o-Terphenyl		84-15-1	115	%	70-135	12.13.19 17.13			
	PH Surrogate -Chlorooctane	PH PHC635 Surrogate -Chlorooctane	PHPHC635<49.9SurrogateCas Number-Chlorooctane111-85-3	PH PHC635 <49.9 49.9 Gurrogate Cas Number % Recovery -Chlorooctane 111-85-3 108	PH PHC635 <49.9 49.9 Surrogate % Units -Chlorooctane 111-85-3 108 %	PHPHC635<49.949.9mg/kgSurrogateCas Number% RecoveryUnitsLimits-Chlorooctane111-85-3108%70-135	PH PHC635 <49.9 49.9 mg/kg 12.13.19 17.13 Surrogate Cas Number % Limits Analysis Date -Chlorooctane 111-85-3 108 % 70-135 12.13.19 17.13	PH PHC635 <49.9 49.9 mg/kg 12.13.19 17.13 U Gurrogate Cas Number 111-85-3 Mail Recovery 108 Units Limits Analysis Date Flag -Chlorooctane 111-85-3 108 % 70-135 12.13.19 17.13	PH PHC635 <49.9 49.9 mg/kg 12.13.19 17.13 U 1 Surrogate Cas Number Recovery Wints 111-85-3 Limits Analysis Date Flag -Chlorooctane 111-85-3 108 % 70-135 12.13.19 17.13



LT Environmental, Inc., Arvada, CO

Sample Id: SS04	Matrix: Soil	Date Received:12.13.19 09.05
Lab Sample Id: 646264-004	Date Collected: 12.12.19 10.50	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight
Seq Number: 3110528		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.13.19 15.31	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 15.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.13.19 15.31		
4-Bromofluorobenzene		460-00-4	107	%	70-130	12.13.19 15.31		



LT Environmental, Inc., Arvada, CO

Hat Mesa 32 State #2

Sample Id: SS05		Matrix:	Soil		Date Received:12.	13.19 09.0	5
Lab Sample Id: 646264-0	005	Date Collec	ted: 12.12.19 10.55		Sample Depth: 0.5	ft	
Analytical Method: Chlo	oride by EPA 300				Prep Method: E30	00P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	12.13.19 11.55		Basis: We	t Weight	
Seq Number: 3110553							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1460	9.98	mg/kg	12.13.19 17.25		1

Analytical Method: TPH by SW8015	5 Mod				Р	rep Method: SV	V8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Prep	p: 12.13.	19 13.00	В	asis: W	et Weight	
Seq Number: 3110565								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.13.19 17.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.13.19 17.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.13.19 17.33	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.13.19 17.33	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.13.19 17.33	U	1
Surrogate			% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	12.13.19 17.33		

121

%

84-15-1

o-Terphenyl

.

12.13.19 17.33

70-135



LT Environmental, Inc., Arvada, CO

Sample Id: SS05	Matrix: Soil	Date Received:12.13.19 09.05		
Lab Sample Id: 646264-005	Date Collected: 12.12.19 10.55	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight		
Seq Number: 3110528				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.13.19 15.48	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 15.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.13.19 15.48		
4-Bromofluorobenzene		460-00-4	102	%	70-130	12.13.19 15.48		



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS06 d: 646264-006		Matrix: Date Colle	Soil cted: 12.12.19 11.00		Date Received:12. Sample Depth:0.5		5
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E30	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	12.13.19 11.55		Basis: We	t Weight	
Seq Number:	3110553							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	790	9.92	mg/kg	12.13.19 17.30		1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: SW	/8015P	
Tech: DTH					9	6 Moisture:		
Analyst: DTH		Date Pre	p: 12.13	.19 13.00	E	Basis: We	t Weight	
Seq Number: 3110565								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.13.19 17.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	12.13.19 17.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	12.13.19 17.33	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	12.13.19 17.33	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	12.13.19 17.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	12.13.19 17.33		
o-Terphenyl		84-15-1	114	%	70-135	12.13.19 17.33		



LT Environmental, Inc., Arvada, CO

Sample Id: SS06	Matrix: Soil	Date Received:12.13.19 09.05
Lab Sample Id: 646264-006	Date Collected: 12.12.19 11.00	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAA	Date Prep: 12.13.19 11.51	Basis: Wet Weight
Seq Number: 3110528		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.13.19 16.06	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.13.19 16.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	12.13.19 16.06		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.13.19 16.06		



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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





LT Environmental, Inc.

Hat Mesa 32 State #2

Analytical Method:	Chloride by EPA 3	00						Pı	ep Metho	d: E300	OP 90	
Seq Number:	3110553			Matrix:	Solid				Date Pre	p: 12.1	3.19	
MB Sample Id:	7692404-1-BLK		LCS Sar	nple Id:	7692404-2	1-BKS		LCS	D Sample	Id: 7692	2404-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	<10.0	250	276	110	272	109	90-110	1	20	mg/kg	12.13.19 16:38	

Analytical Method:	Chloride by EPA 3	00						Pre	ep Metho	d: E30	OP	
Seq Number:	3110553			Matrix:	Soil				Date Pre	p: 12.1	3.19	
Parent Sample Id:	646264-001	nple Id:	646264-00	01 S		MSE	Sample	Id: 6462	264-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	00						Pi	rep Meth	od: E30	OP 90	
Seq Number:	3110553			Matrix:	Soil				Date Pr	ep: 12.1	3.19	
Parent Sample Id:	646373-001		MS Sar	nple Id:	646373-00	01 S		MS	D Sample	e Id: 6463	373-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	2960	200	3460	250	3460	250	90-110	0	20	mg/kg	12.13.19 20:17	Х

Analytical Method:	TPH by S	W8015 M	od			Prep Method: SW8015P							
Seq Number:	3110481			Matrix:	Solid		Date Prep: 12.13.19						
MB Sample Id:		LCS Sample Id: 7692406-1-BKS				LCSD Sample Id: 7692406-1-BSD							
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1210	121	1010	101	70-135	18	35	mg/kg	12.13.19 11:30	
Diesel Range Organics	(DRO)	<50.0	1000	1240	124	1050	105	70-135	17	35	mg/kg	12.13.19 11:30	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			Limits	Units	Analysis Date	
1-Chlorooctane		105		1	32		123		-	70-135	%	12.13.19 11:30	
o-Terphenyl		107		1	33		122			70-135	%	12.13.19 11:30	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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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QC Summary 646264

LT Environmental, Inc.

Hat Mesa 32 State #2

					Hat	: Mesa 32	State #	2					
Analytical Method: Seq Number: MB Sample Id:	TPH by S 3110565 7692472-1		od		Matrix: nple Id:	Solid 7692472-	1-BKS			rep Meth Date P SD Samp	Prep: 12.1	8015P 3.19 2472-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lir	nit Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.0	1000	1080	108		97	70-135	11	35	mg/kg	12.13.19 15:51	
Diesel Range Organics ((DRO)	<50.0	1000	915	92	967	97	70-135	6	35	mg/kg	12.13.19 15:51	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			limits	Units	Analysis Date	
1-Chlorooctane		102			06		115		7	0-135	%	12.13.19 15:51	
o-Terphenyl		111		1	01		113		7	0-135	%	12.13.19 15:51	
Analytical Method: Seq Number:	TPH by S 3110481	W8015 M	od		Matrix:	Solid			F	Prep Meth Date P		8015P 3.19	
-				MB Sar	nple Id:	7692406-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)			<50.0							mg/kg	12.13.19 11:10	
Analytical Method: Seq Number:	TPH by S 3110565	W8015 M	od		Matrix:	Solid			F	Prep Meth Date P		8015P 3.19	
				MB Sar	nple Id:	7692472-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)			<50.0							mg/kg	12.13.19 15:51	
Analytical Method: Seq Number: Parent Sample Id:	TPH by S 3110481 646243-00		od		Matrix:	Soil 646243-0	01 S			Prep Meth Date P	Prep: 12.1	8015P 3.19 243-001 SD	
Parameter	040245-00	Parent Result	Spike Amount	MS Result	MS %Rec	MSD	MSD	Limits			nit Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.8	Amount 996	1090	7 6 Kec 109	Result 1080	%Rec 108	70-135	1	35	mg/kg	12.13.19 11:50	
Diesel Range Organics (<49.8	996	1120	112		110	70-135	2	35	mg/kg	12.13.19 11:50	
Surrogate					MS Rec	MS Flag	MSD %Re			limits	Units	Analysis Date	
1-Chlorooctane					28		129			0-135	%	12.13.19 11:50	
o-Terphenyl				1	23		124		7	0-135	%	12.13.19 11:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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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Page 20 of 23



QC Summary 646264

LT Environmental, Inc.

Hat Mesa 32 State #2

Analytical Method: T	PH by SW8015 M	lod						Р	rep Method	l: SW8	8015P	
Seq Number: 31	10565			Matrix:	Soil				Date Prep	p: 12.1	3.19	
Parent Sample Id: 64	46264-001		MS San	nple Id:	646264-00	01 S		MS	D Sample	ld: 6462	264-001 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) <49.8	995	1090	110	1080	108	70-135	1	35	mg/kg	12.13.19 16:53	
Diesel Range Organics (DR	.0) <49.8	995	1120	113	1130	113	70-135	1	35	mg/kg	12.13.19 16:53	
Surrogate				AS Rec	MS Flag	MSD %Re		_	imits	Units	Analysis Date	
1-Chlorooctane			1	33		134		7	0-135	%	12.13.19 16:53	
o-Terphenyl			1	28		129		7	0-135	%	12.13.19 16:53	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3110528 7692402-1-BLK	1B	Matrix: nple Id:	Solid 7692402-	1-BKS		Prep Method: SW5030B Date Prep: 12.13.19 LCSD Sample Id: 7692402-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	% RP]	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0986	99	0.101	101	70-130	2	35	mg/kg	12.13.19 12:55	
Toluene	< 0.00200	0.100	0.0989	99	0.101	101	70-130	2	35	mg/kg	12.13.19 12:55	
Ethylbenzene	< 0.00200	0.100	0.0975	98	0.0994	99	71-129	2	35	mg/kg	12.13.19 12:55	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.206	103	70-135	2	35	mg/kg	12.13.19 12:55	
o-Xylene	< 0.00200	0.100	0.0980	98	0.101	101	71-133	3	35	mg/kg	12.13.19 12:55	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	101		1	00		101			70-130	%	12.13.19 12:55	
4-Bromofluorobenzene	97		ç	98		101			70-130	%	12.13.19 12:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3110528 646264-001	1B		Matrix: nple Id:	Soil 646264-00	01 S			Prep Metho Date Prej SD Sample	p: 12.1	5030B 3.19 264-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	ORPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.108	109	0.0917	92	70-130	16	35	mg/kg	12.13.19 13:30	
Toluene	< 0.00199	0.0994	0.105	106	0.0896	90	70-130	16	35	mg/kg	12.13.19 13:30	
Ethylbenzene	< 0.00199	0.0994	0.100	101	0.0850	85	71-129	16	35	mg/kg	12.13.19 13:30	
m,p-Xylenes	< 0.000749	0.199	0.207	104	0.175	88	70-135	17	35	mg/kg	12.13.19 13:30	
o-Xylene	< 0.00199	0.0994	0.101	102	0.0865	87	71-133	15	35	mg/kg	12.13.19 13:30	
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		100		-	70-130	%	12.13.19 13:30	
4-Bromofluorobenzene			1	02		98		-	70-130	%	12.13.19 13:30	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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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	ed by O	Contraction of the contraction o	anco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions arvice. Xenco will be liable builts of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contra	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:				56	2022	1422	2 4 > >	6022	1055	entification	E	Yes to	6	Temperature (°C):	SAMPLE RECEIPT Temp Blank:	Sampler's Name: Robert McAfee	P.O. Number: 10/21/2	Project Number: 012919296	Project Name: Hat Mese 32	Phone: 432.704.5178	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental	Project Manager: Dan Moir	
	MMM OLOW	Received by: (1	ed to each project and a charge of \$	ent of samples constitutes a valid pu amples and shall not assume any re	analyzed TCLP / SPL	8RCRA		<u> </u>	-		1000	(1201)		1 1 1040	5 13/13/19 1035	Matrix Date Time Sampled Sampled	N/A Total Containers:	N/A Correction Factor:	L	The	(Yes) No	Jerzmy 14:11 Due Date:	2019 Rush:		SHR #2	Email:	15	bet	LT Environmental, Inc., Permian office		S Houss Hobbs, NM (575-3
-			for each sample submi	sponsibility for any loss	TCLP / SPLP 6010: 8RCRA	13PPM Texas 11 Al			A					-	0.51 1	Depth	6	20.2	to		(es) No	Date:		Routine	Turn Around	il: dmoir@ltenv.cc	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	ton,TX (281) 240-4200 land,TX (432-704-544(92-7550) Phoenix,AZ
0	4	me	tted to Xenco, but not an:	t company to Xenco, its a es or expenses incurred	Sb As Ba Be C	I Sb As Ba Be B			7 × ×	+		-	-	< :	×	TPH (EF BTEX (F	EPA 0	=80								dmoir@ltenv.com rmcafee@ltenv.com	Carlsbad, NM		XTO-Energy	Kyle Littrel	louston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, T) Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX 75-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800
	ANN VANA	Relinquished by: (Signature)	alyzed. These terms will be enforced unless	iffillates and subcontractors. It assigns star by the client if such losses are due to circu	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Cd Ca Cr Co																			ANALYSIS REQUEST		7				Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,CA (770-449-8800) Tampa,FL (813-620-2000)
	Cherry	Received by: (Signature)	previously negotiated.	-	Ng SIO2		A VA										1								T	Deliverables: EDD ADaPT	Reporting:Level II evel III ST/UST	State of Project:	Program: UST/PST PRP Brownfields		
Revised Date 051418 Rev. 2018 1	12/,3),90905	Date/Time			1631 / 245.1 / 7470 / 7471 : Hg			1	¥.			-		Discret	A	Sample Comments	TAT starts the day received by the lab, if received by 4:30pm								Work Order Notes	Othe	ST RRP bvel IV		RC		www.xenco.com Page 1 of 1



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 12/13/2019 09:05:00 AM Temperature Measuring device used : T-NM-007 Work Order #: 646264 Sample Receipt Checklist

#1 *Temperature of cooler(s)?	2.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jession Venamer

Date: 12/13/2019

Comments

Jessica Kramer

Date: 12/13/2019

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Company Name:	Dan Moir LT Environmental, Inc.,	Hobbs,NM (575-3	Bill to: (if different) Company Name:	Company Name: XTO Energy	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Bill to: (if different) Kyle Littrell Program ian office Company Name: XTO Energy Program	n: UST/PST	Work Order Comments
-	3300 North A Street		Address:		treet	1 11	
City, State ZIP: N	Midland, TX 79705		City, State ZIP:	Carlsbad, NM 88220	0	Reporting:Level II	Level III ST/UST
	(432) 236-3849	En	1	dmoir@ltenv.com		Deliverables: EDD	ADaPT
Project Name:	Hat Mesa 32 State #2	State #2	Turn Around		ANALYSIS REQUEST	QUEST	
Project Number:	012919296		Routine				7
P.O. Number:			Rush:				
Sampler's Name:	Spencer Lo		Due Date:				
SAMPLE RECEIPT	PT Temp Blank:	(Yes No Wet Ice:	Yes No	5			-
Temperature (°C):	1.2	The	(:1)			
Cooler Custody Seals:	Yes And N/A	Correction Factor:	-0-2	015) 0=802			7
Sample Custody Seals:		Total Containers:	w	PA 8			lab, if received by 4:30pm
Sample Identification	ification Matrix	Date Time Sampled Sampled	Depth	Numb TPH (E BTEX (Chloric			
PH01	S	0		× ×			
PH01A	A S	7-15-2020 1200	2'	1 X X X			
PH02	S	7-15-2020 1410	1.	1 X X X			
				U			
				A los			
				70			
Total 200.7 / 6010 Circle Method(s) a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8R	CRA 13PPM Texas 11 AI	Sb As Ba Be Sb As Ba Be	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Pb Mg Mn Mo Ni K Se 10 Ni Se Ag Ti U	e Ag SiO2 Na Sr TI Sn U 1631/245.1/7470
xtice: Signature of this do service. Xenco will be lia Xenco. A minimum charg	ocument and relinquishment of able only for the cost of sample ge of \$75.00 will be applied to ¢	samples constitutes a vali is and shall not assume an ach project and a charge o	d purchase order from cl y responsibility for any l of \$5 for each sample su	ient company to Xenco, its af osses or expenses incurred t bmitted to Xenco, but not ana	ffiliates and subcontractors. It a by the client if such losses are d alyzed. These terms will be enfor	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions tervice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tions ontrol
Relinquished by: (Signature)	(Signature)	Received by: (Signature)	ature)	Date/Time	Relinquished by: Sigr	(Signature) Received	Received by: (Signature)
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ge 17	BORATORIES		Midland, TX	(432-704-5440) EL Paso	,TX (915)	85-3443 Lubbo	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	34			
Page Project Monoport		Hobbs,N	VM (575-392-755	i0) Phoenix,AZ	(480-355-	0900) Atla	nta,GA (770-449	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	313-620-2000)	WWW	www.xenco.com	Page / of
Tuject Manager:	Uan Moir		Bil	Bill to: (if different)	Kyle	Kyle Littrell				Wo	è l	nments
Company Name:	LT Environmental, Inc.,	c., Permian office		Company Name:		XTO Energy			Program: U	IST/PST -PR	Program: UST/PST PRP Brownfields PRC	
Address:	3300 North A Street		Ad	Address:		East Gre	3104 East Green Street		State of	State of Project:		
City, State ZIP:	Midland, TX 79705		Cit	City, State ZIP:	Carls	Carlsbad, NM 88220	38220		Reporting:Level II	- 1	Level IIIST/IST	
Phone:	(432) 236-3849		Email: slo	Email: slo@ltenv.com, dmoir@ltenv.com	dmoir@lt	env.com			Deliverables: EDD	-	ADaPT I	
Project Name:	Hat Mesa 32 State	State #2	Turn	Turn Around				ANAI VOIS DECI				Work Order Notes
Project Number:	012919296	1296	Routine	6			_					MON CIDEL NOIS
P.O. Number:			Rush:	-								
Sampler's Name:	Spencer Lo	rLo	Due Date:	e.								
SAMPLE RECEIPT	IPT Temp Blank:	C Yes No	Wet Ice:	No			-					
Temperature (°C):	1.261.0	(a [,					
Received Intact:			-NMO OT	onta		-						
Sample Custody Seals:	Yes No	Correcti	1	1			- A				TA	TAT starts the day received by the
		Iulai	ers:	ber								lab, if received by 4:30pm
Sample Identification	ification Matrix	Sampled	Sampled I	Depth	TPH (I	BTEX	Chlori					Sample Comments
FS01	S	-	1020	1.	-	-	×					Contraction of the second
FS02	S	7-15-2020	1030	1 1	×	-						
FS03	S	7-15-2020	1040	1 1	×							
FS04	S	7-15-2020	1050	1. 1	×	-					-	
FS05	s	7-15-2020	1100	1. 1	×							
FS06	S	7-15-2020	1110	1 1	×	××					-	
FS07	S	7-15-2020	1120	1' 1	×						-	
	S	7-15-2020	1130	1 1	×	x x					-	
PM FS09	S	7-15-2020	1300	1 1	×							
FS10	S	7-15-2020	1310	1. 1	×	× ×					-	
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nco.	c: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions rvice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control nco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	samples constitute es and shall not ass each project and a c	s a valid purchase ume any responsi harge of \$5 for ea	e order from clier ibility for any los ach sample subm	nt company ses or expe litted to Xe	r to Xenco, anses incur nco, but no	its affiliates and si red by the client if analyzed. These t	ubcontractors. It assi such losses are due t terms will be enforced	gns standard term o circumstances b unless previously	s and conditions eyond the control negotiated.		
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	form	Relinquished by: (Sig	enco. A minimum charge o	ervice. Xenco will be liable	4:50 Iotal ZUU.7 FOULD ZUU.8 FOUZU: Circle Method(s) and Metal(s) to be analyzed	•		FS18	FS17	FS16	FS15	FS14	FS13	FS12	FS11	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (432)	City, State ZIP: Mi	Address: 33	-	-	age 174
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/	Mert with	Received by:	to each project and	It of samples constitution	er er	1-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	7-15-2020	rix Date Sampled	N/A I ota		T	A A	ank: Yes No	Spencer Lo		012919296	Hat Mesa 32 State #2			-	Inc., Permian o		Hobb
		by: (Signature)	assume any resp 1 a charge of \$5 f	tutes a valid purc	TCLP / SPLP		1505	1455	1445	1435	1420	1350	1340	1330	1320	Time Sampled	I otal Containers:	Correction Factor:		Thermometer ID	Wet-lee:	Due Date:	Rush:	Routine	Tu	Email:			ffice		Houston, Midland s,NM (575-392-
	7	(e)	or each sample s	hase order from	TCLP / SPLP 6010: 8RCRA	111	-	1	+	1'	1'	1'	1.	-1	-	Depth				D	Yes No)ate:		ne 🖌	Turn Around	Email: slo@ltenv.com, dmoir@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	TX (281) 240-42 I,TX (432-704-5- 7550) Phoenix,
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	20/7	Date/Time	to Xenco	npany to	As	×	××	××	X X	X X	× ×	-	X	X	X	TPH (E	-	-	-		_	_	_			r@ltenv	Carlsba	3104 Ea	XTO Energy	Kyle Littrell	as,TX (2 Paso,T) 355-090
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6	2 With The	Relinquished by: (Signature)	ervice. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ervice. Xenco will be liable only for the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and shall not assume any constitute for any location of the cost of samples and samples an	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																				ANALYSIS REQUEST						Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)
C	70	Received by: (Signature)	cumstances beyond the control sss previously negotiated.		K Se Ag Sic												12	TATS								Deliverables: EDD ADaPT	Reporting:Level IIIevel IIIST/UST		Program: UST/PST PRP Brownfields RRC	Work Order Con	www.xenco.com
-	7/17/20 08:15	Date/Time			02 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Ha											Sample Comments	lab, if received by 4:30pm	starts the day recevied by the							Work Order Notes	Other:	RRP evel IV		s RRC Duperfund		Page V of V

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IAI starts the day received by the lab, if received by 4:30pm			(EPA	ber of	otal Co	NIA T	Yes No	Sample Custody Seals:
			0=8	Co	Correction Factor:	NA C	Tes No	Cooler Custody Seals:
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					Rush:			P.O. Number:
				ne 🖓	Routine	012919296	013	Project Number:
Work Order Notes	EST	ANALYSIS REQUEST		Turn Around		Hat Mesa 32 State #2	Hat Mes	Project Name:
ADaPT Other:	Deliverables: EDD		noir@ltenv.com	Email: slo@ltenv.com, dmoir@ltenv.com	Email:		(432) 236-3849	Phone: (
ST/UST RRP Jevel IV	Reporting:Level IILevel III	20	Carlsbad, NM 88220	City, State ZIP:		5	Midland, TX 79705	ate ZIP:
		Street	3104 East Green Street	Address:		et	3300 North A Street	
PRP Brownfields RRC Puperfund	Program: UST/PST PRP		XTO Energy	Company Name:	Permian office	NC.,	LT Environmental, Inc.,	/ Name:
omments			Kyle Littrell	Bill to: (if different)			Dan Moir	Project Manager:
co.com Page 3 of	3-620-2000) www.xenco.com	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	80-355-0900) Atlanta,	7550) Phoenix,AZ (4	lobbs, NM (575-392	н		
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Environment Testing Xenco

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Environment Testing Xenco

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ed by OC	a ref	Relinquished by: (Signature)	Circle Method(s) and Metal(s) to be analyzed			/	Horst	+305A	r5037	+ 202 H		Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name: H	Phone: (4	ate ZIP:		Name:	-	ge 192 o
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-		Perceived by Action	8RCRA nalyzed TCLP of samples constitutes a				7.28.20 10	7.28.20 10	7.28.20 1005	7.28.20 1000	Sampled	Dat		A Correction Factor:	+		Yes No	xer Lo		60	State #2				nc., Permian office		Hobbs,NM
	gnature)	any responsibility for ar ge of \$5 for each sample	CRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA				1045 2.51	1015 2'	12 50	0 2'	Sampled Depth			Factor -no		100	Wet Ine: Ves No	Due Date:		Routine	Turn Around	Email: slo@ltenv.c	City, State ZIP:			Bill to: (if different)	Houston, TX (281) 240 Midland, TX (432-70- (575-392-7550) Phoer
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	re) Received by: (Signature)	ns standard terms and conditions circumstances beyond the control unless previously negotiated.	g SiC										172									-	Reporting:Level II Pevel III	State of Project:			
Revised Tale 05/149 Day, Door	Date/Time)2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg		-						Sample Comments	lab, if received by 4:30pm	AT starts the day received but							Work Order Notes	Cuici.	E		elds RRC Duperfund	suments	r dye UI	

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Page 6

Oil Conservation Division

Incident ID	NRM1935430604
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following a	tems 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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office								
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)								
Description of remediation activities									
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.								
Printed Name:Kyle Littrell	Title:SH&E Supervisor								
Printed Name:Kyle Littrell Signature:	Date:10/15/2020								
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331								
OCD Only									
Received by: <u>Robert Hamlet</u>	Date: <u>3/23/2021</u>								
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible 'or regulations.								
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>3/23/2021</u>								
Printed Name: <u>Robert Hamlet</u>									

CONDITIONS

Action 10816

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

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 OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	OGRID: 5380	Action Number: 10816	Action Type: C-141
OCD Reviewer Condition			

rhamlet We have received your closure report and final C-141 for Incident #NRM1935430604 HAT MESA 32 STATE #002, thank you. This closure is approved.