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

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Incident ID	NRM202695736
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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	

Location of Release Source

Latitude 32.24011

Site Name Los dos Medanos	Site Type Tank Battery
Date Release Discovered 9/15/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	3	24S	30E	Eddy

Surface Owner: State X Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls) 5.88	Volume Recovered (bbls) ₀
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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)
the in	ations was performing a line exposure on the 6" lateral oi ternal wall of the line. It was determined there was a sma ed for all remediation activities.	l line that had been identified as having an anomaly on Il pin hole in the pipe. A third party contractor will be

Page 1 10696

w Mexico	Incident ID	NID M202(0572(7
ion Division	District RP	NRM2026957367
	Facility ID	
	Application ID	
		on Division District RP Facility ID

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
🗌 Yes 🛛 No	
If YES, was immediate no	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

 \checkmark The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Kyle Littrell	Title:
Signature: Metter	Date: 9-23-20
email: Ky Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by:Ramona Marcus	Date: <u>9/25/2020</u>

NRM2026957367

Location:	Los Dos Medanos			
Spill Date:	9/15/2020			
	Area 1			
Approximate A	rea =	220.00	sq. ft.	
Average Saturation (or depth) of spill = 12.00			inches	
Average Porosity Factor = 0.15				
VOLUME OF LEAK				
Total Crude Oil	=	5.88	bbls	

TOTAL VOLUN	IE OF LEAK
Total Crude Oil =	5.88 bbls

Oil Conservation Division

	Page 4 of 9	6
Incident ID	NRM2026957367	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

	1
What is the shallowest depth to groundwater beneath the area affected by the release?	≥ 100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗙 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 12/14/	2020 3:18:45 PM State of New Mexico			Page 5 of 96
Form C-141			Incident ID	NRM2026957367
Page 4	Oil Conservation Divis	ion	District RP	
			Facility ID	
			Application ID	
regulations all operators and public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email:	formation given above is true and complete t re required to report and/or file certain releas nment. The acceptance of a C-141 report by igate and remediate contamination that pose of a C-141 report does not relieve the operat Kyle Littrell	the notifications and perform c the OCD does not relieve the a threat to groundwater, surf tor of responsibility for comp	orrective actions for rele e operator of liability sho ace water, human health oliance with any other fee E Supervisor	eases which may endanger build their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

	Page 6 of 9
Incident ID	NRM2026957367
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.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Kyle Littrell	Title: SH&E Supervisor		
Signature: Juliut	_Date:12/01/2020		
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:		

•

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	NRM202695736
District RP	
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Application ID	

Release Notification

Responsible Party

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	

Location of Release Source

Latitude 32.24011

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Los dos Medanos	Site Type Tank Battery
Date Release Discovered 9/15/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	3	24S	30E	Eddy

Surface Owner: State X Federal Tribal Private (Name:

Nature and Volume of Release

X Crude Oil	rial(s) Released (Select all that apply and attach calculations or specific Volume Released (bbls) 5.88	Volume Recovered (bbls) ₀
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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)
the in	ations was performing a line exposure on the 6" lateral of ternal wall of the line. It was determined there was a sma ed for all remediation activities.	I line that had been identified as having an anomaly on all pin hole in the pipe. A third party contractor will be

Received by OCD: 12/14/202013:18:45 PM

Form C-141	State of New Mexico		
		Incident ID	NRM2026957367
Page 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
		5	10

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

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

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Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature: With	Date: 9-23-20
email: Kyc Littrell@xtoenergy.com	Telephone:
OCD Only Received by: Ramona Marcus	Date: <u>9/25/2020</u>

NRM2026957367

Location:	Los Dos Medanos		
Spill Date:	9/15/2020		
	Area 1	~	
Approximate A	rea = 220.00	sq. ft.	
Average Saturation (or depth) of spill = 12.00			
Average Porosity Factor = 0.15			
VOLUME OF LEAK			
Total Crude Oil	= 5.88	bbls	

TOTAL VOLUM	IE OF LEAK
Total Crude Oil =	5.88 bbls

	Page 10 of 90
Incident ID	NRM2026957367
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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	1
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Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
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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
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Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
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Received by OCD: 12/14/20	20 3:18:45 PM State of New Mexic	20		Page 11 of			
			Incident ID	NRM2026957367			
Page 4			District RP				
			Facility ID				
			Application ID				
regulations all operators are n public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Ky Signature: email: Kyle_Littre	mation given above is true and complete required to report and/or file certain rele nent. The acceptance of a C-141 report b the and remediate contamination that pose a C-141 report does not relieve the oper le Littrell	ease notifications and performance of the OCD does not responsibility fractor of responsibility	erform corrective actions for rele lieve the operator of liability sho ter, surface water, human health	eases which may endanger ould their operations have or the environment. In			
OCD Only							
Received by:		Date	:				

Page 6

Oil Conservation Division

	Page 12 of 9
Incident ID	NRM2026957367
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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inted Name: Kyle Littrell Title: SH&E Supervisor							
Signature:	Date: <u>12/01/2020</u>						
email:Littrell@xtoenergy.com	Telephone: 432-221-7331						
OCD Only							
Received by: Chad Hensley	Date: 03/02/2021						
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: Child Hend	Date:03/2/2021						
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced						

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WSP USA

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

December 4, 2020

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request Los Dos Medanos Incident Number NRM2026957367 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Los Dos Medanos (Site) in Unit P, Section 3, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2026957367.

RELEASE BACKGROUND

On September 15, 2020, during a line exposure, operations noticed a small pinhole on a 6-inch oil pipeline lateral resulting in the release of approximately 5.88 barrels of crude oil into the surrounding soil. No fluids were recovered. 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 September 23, 2020 and was assigned Incident Number NRM2026957367.

SITE CHARACTERIZATION

WSP 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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 321526103520101, located approximately 1.2 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 441 feet bgs and a total depth of 567 feet bgs. There are eight additional groundwater wells within a 2-mile radius of the Site that indicate regional depth to groundwater is greater than 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included

wsp

District II Page 2

in Attachment 1. The Site is located on the western flank of Centinela Mound and is approximately 400 feet higher in elevation than the nearest potential shallow groundwater in Dog Town Draw. The significant number of data points all indicative of groundwater greater than 100 feet in depth and the lack of any features indicative of shallow groundwater strongly support the depth to water determination.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream, located approximately 0.95 miles southeast 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Additionally, the reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the undeveloped pasture that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet for areas to be reclaimed following remediation.

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On September 24, 2020, once the 6-inch steel oil line was exposed, WSP personnel visited the Site to evaluate the release extent. Approximately 200 cubic yards of impacted soil was removed by XTO operations prior to WSP personnel visiting the Site. The excavation extent was mapped utilizing a handheld Global Positing System (GPS) unit and is depicted on Figure 2. Photographic documentation was conducted and is included in Attachment 2. WSP personnel collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of 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. A total of four

vsp

District II Page 3

confirmation floor samples (FS01 through FS04) and four confirmation sidewall samples (SW01 through SW04) were collected from the excavation.

The confirmation floor samples were collected at depths ranging from approximately 6 feet to 8 feet bgs. The confirmation sidewall samples were collected at depths ranging from ground surface to a maximum depth of 8 feet bgs. Soil from the confirmation samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The confirmation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

All confirmation 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 confirmation floor sample FS04 indicated that TPH-GRO, TPH-DRO, and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for confirmation floor samples FS01 through FS03 and confirmation sidewall samples SW01 through SW04 were compliant with Closure Criteria for the Site.

On October 8, 2020, WSP personnel returned to the Site to oversee excavation activities as indicated by laboratory analytical results. Based on elevated TPH concentrations in FS04, the excavation was extended in the area around FS02 through FS04. Following the additional excavation, confirmation floor samples FS02A through FS04A were collected at depths from 9 feet bgs, near FS02A, to 10.5 feet bgs, near FS03A and FS04A. The excavation soil samples were collected, handled, and analyzed as described above. The locations of final excavation confirmation sample are presented on Figure 2.

The excavation extent totaled approximately 725 square feet. An additional 55 cubic yards of impacted soil was removed by WSP during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. The excavated area will be backfilled with material purchased locally and recontour the Site to match pre-existing site conditions.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for confirmation floor sample FS04 indicated that TPH-GRO, TPH-DRO, and TPH concentrations exceeded the Closure Criteria. Based on elevated TPH concentrations in FS04, the excavation was extended to 10.5 feet bgs in that area and resampled as FS04A.



District II Page 4

Laboratory analytical results for composite sidewall samples SW01 through SW04 and composite floor samples FS01 through FS03, and FS02A through FS04A indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. All final confirmation samples meet the reclamation standard applied to the top 4 feet of areas to be reclaimed, ensuring no waste-containing soil has been left in place above 4 feet bgs. The laboratory analytical results are summarized in Table 1 and the laboratory data reports are provided in Attachment 3.

CLOSURE REQUEST

Response efforts as a result of the September 15, 2020 crude oil release included removal of impacted soil and collection of confirmation soil samples. Impacted soil was removed to depths ranging from 6 feet bgs to 10.5 feet bgs. Laboratory analytical results for excavation confirmation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and the reclamation standard and no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Based on the excavation confirmation soil sample analytical results indicating benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the strictest Closure Criteria, XTO requests no further action for Incident Number NRM2026957367.

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

Sincerely,

WSP USA Inc.

Elizabeth Naha

Elizabeth Naka Assistant Consultant, Environmental Scientist

Ashley L. ager

Ashley L. Ager, P.G. Managing Director, Geologist

cc: Kyle Littrell, XTO Robert Hamlet, NMOCD Victoria Venegas, NMOCD Jim Amos, Bureau of Land Management vsp

District II Page 5

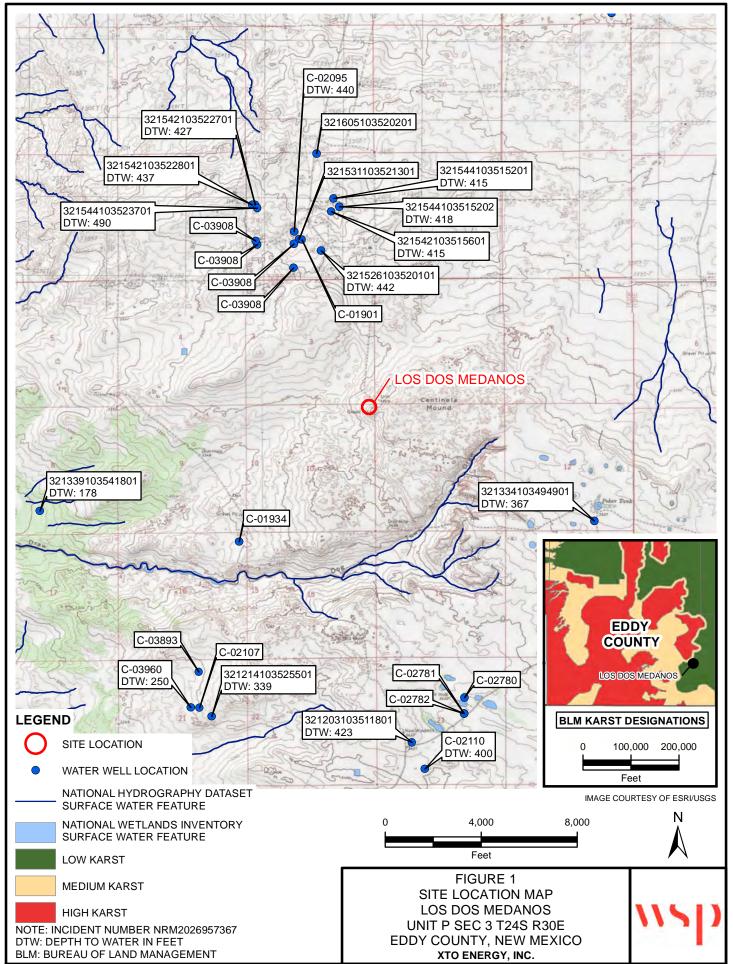
Attachments:

Figure 1	Site Location Map
Figure 2	Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Photographic Log
Attachment 3	Laboratory Analytical Reports

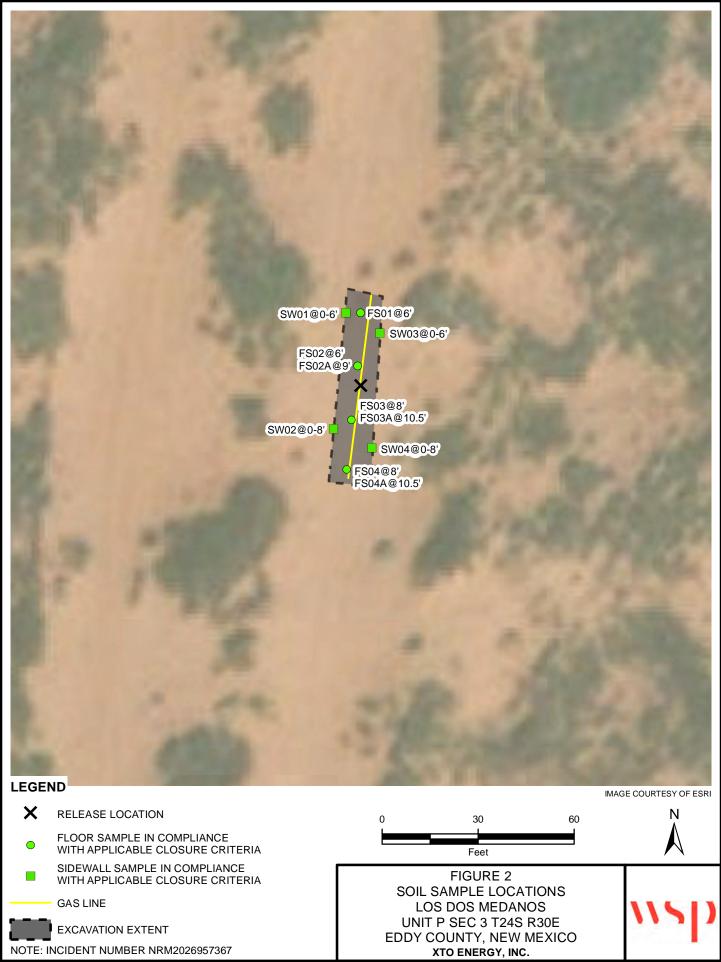
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P:\XTO Energy\GIS\MXD\012920135_LOS DOS MEDANOS\012920135_FIG02_SS_LOC_2020.mxd

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Table 1

Soil Analytical Results Los Dos Medanos Incident Number NRM2026957367 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Sa	mples									
FS01	09/24/2020	6	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	10.4
FS02	09/24/2020	6	< 0.00199	0.0559	711	<50.1	71.2	711	782	<9.92
FS02A	10/08/2020	9	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<9.94
FS03	09/24/2020	8	< 0.00201	0.0418	245	<50.1	<50.1	245	245	<9.96
FS03A	10/08/2020	10.5	< 0.00200	< 0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	<9.94
FS04	09/24/2020	8	< 0.00200	< 0.00200	2,350	65.6	202	2,420	2,620	<9.98
FS04A	10/08/2020	10.5	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	<9.98
Excavation Sidewall	Samples									
SW01	09/24/2020	0 - 6	<0.00199	0.131	<50.2	<50.2	<50.2	<50.2	<50.2	<9.96
SW02	09/24/2020	0 - 8	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
SW03	09/24/2020	0 - 6	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<9.96
SW04	09/24/2020	0 - 8	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

WSP

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Well Tag 🔢 🛛	POD Number	Q64 Q16 Q4 Sec	Tws Rng	X Y	
	C 02095	2 3 34	23S 30E	606337 3569759* 😜	
x Driller Licen	se:	Driller Company:			
Driller Name	E DEPT. OF ENG	ERY			
Drill Start Da	ate:	Drill Finish Date:	08/31/1960	Plug Date:	
Log File Date	e:	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	100 GPM
Casing Size:	12.75	Depth Well:	554 feet	Depth Water:	440 feet

*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.

10/13/20 9:54 AM

POINT OF DIVERSION SUMMARY



		(quarters are I=NW 2 (quarters are smalles	,	(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Se	ec Tws Rng	X Y	
	C 02110	4 3 23	3 24S 30E	608036 3562950*	
× Driller Lic	ense:	Driller Company:			
Driller Na	me: UNKNOWN				
Drill Start Date: Log File Date:		Drill Finish Date:	12/31/1967	7 Plug Date:	
		PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Siz	ze:	Estimated Yield:	15 GPM
Casing Siz	e: 7.00	Depth Well:	600 feet	Depth Water:	400 feet

*UTM location was derived from PLSS - see Help

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10/21/20 8:56 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters a (quarters				(NAD83 III	(NAD83 UTM in meters)			
Well Tag POD Number		Q64 Q16 Q4 Sec			8		X	· · · · · · · · · · · · · · · · · · ·		
8		3960 POD1	1 3	-	21	24S	0	605062	3563712	
Driller Lic	ense:	1753	Driller Co	ompa	ny:	VA	NGUAR	D WATER	WELLS	
Driller Na	me:	JACOBO FRIES	SEN							
Drill Start	Date:	11/12/2016	Drill Fini	sh Da	te:	1	/12/201	6 Plu	g Date:	
Log File Date: 11/17/2016 Pump Type: 6.00		PCW Rev	PCW Rev Date:					irce:	Shallow :	
		Pipe Disc	Pipe Discharge Size:				Est			
		Depth We	Depth Well:			475 feet		Depth Water:		
ĸ	Wate	er Bearing Stratif	ications:	Тс	p B	ottom	Descr	iption		
				18	32	250	Sands	tone/Gravel/	Conglomerate	
				40)2	460	Sands	tone/Gravel/	Conglomerate	
K		Casing Per	forations:	То	p B	ottom				
				25	50	290				
				39	95	435				

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Data Category: Groundwater Geographic Area: United States

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site_no list =

• 321542103522801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321542103522801 23S.30E.34.133144 USGS-4

Available data for this site Groundwater: Field measurements 🗸 GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'45.42", Longitude 103°52'36.09" NAD83 Land-surface elevation 3,413 feet above NAVD88 The depth of the well is 518 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

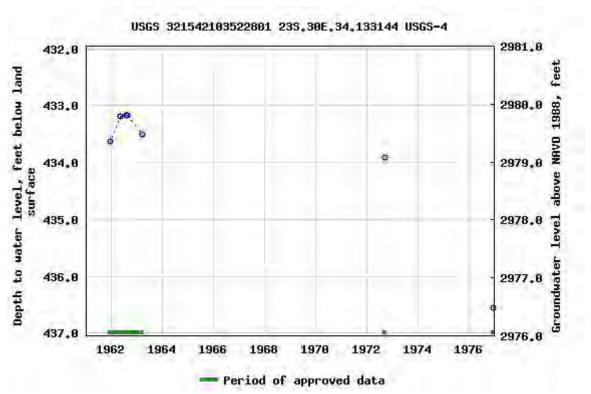
Output formats

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Data Category: Geographic Area: Groundwater

United States

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321544103515201

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USGS 321544103515201 23S.30E.34.23411 USGS-6

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'47.9", Longitude 103°51'56.6" NAD83 Land-surface elevation 3,400.50 feet above NGVD29 The depth of the well is 567 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

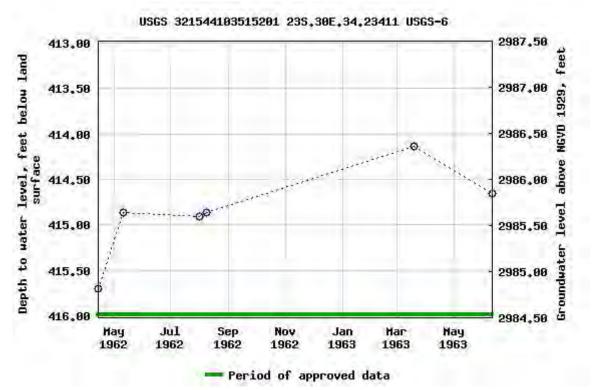
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321544103515202

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USGS 321544103515202 23S.30E.34.23411 A USGS-7

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'44", Longitude 103°51'52" NAD27 Land-surface elevation 3,404 feet above NAVD88 The depth of the well is 563 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

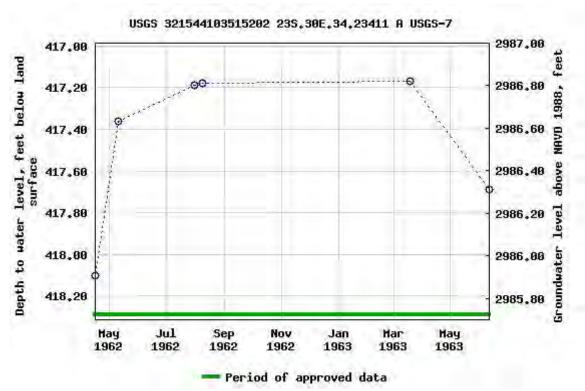
Output formats

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 Geographic Area:

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• 321544103523701

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USGS 321544103523701 23S.30E.33.244112 USGS-5

Available data for this site Groundwater: Field measurements V

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'44.1", Longitude 103°52'33.5" NAD83 Land-surface elevation 3,438.37 feet above NGVD29 The depth of the well is 696 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

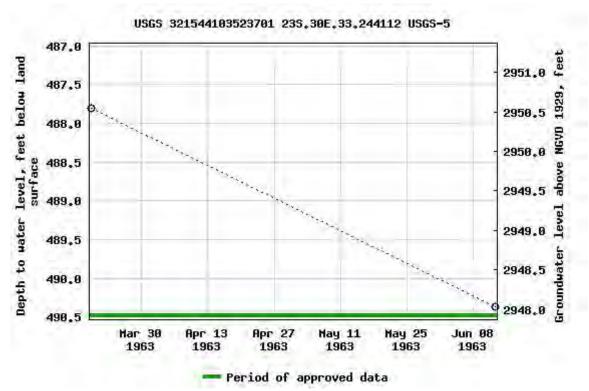
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Data Category:Geographic Area:Groundwater✔United States

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• 321339103541801

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USGS 321339103541801 24S.30E.08.33222

Available data for this site Groundwater: Field measurements 🗸

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°13'39", Longitude 103°54'18" NAD27 Land-surface elevation 3,207 feet above NAVD88 The depth of the well is 192 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

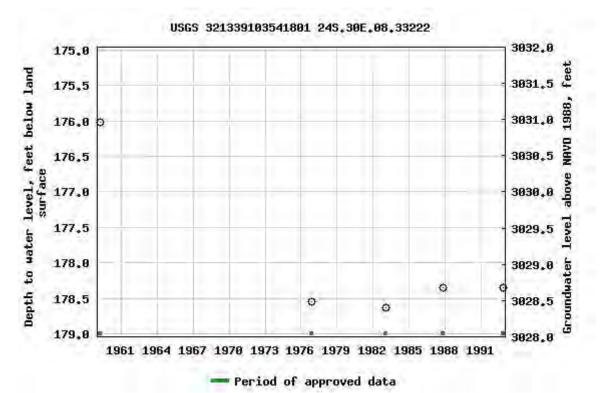
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USGS	Water	Resou	rces

Data Category:Geographic Area:Groundwater✔United States

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• 321526103520101

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USGS 321526103520101 23S.30E.34.32400

Available data for this site Groundwater: Field measurements V

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'26", Longitude 103°52'01" NAD27 Land-surface elevation 3,446 feet above NAVD88 The depth of the well is 567 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

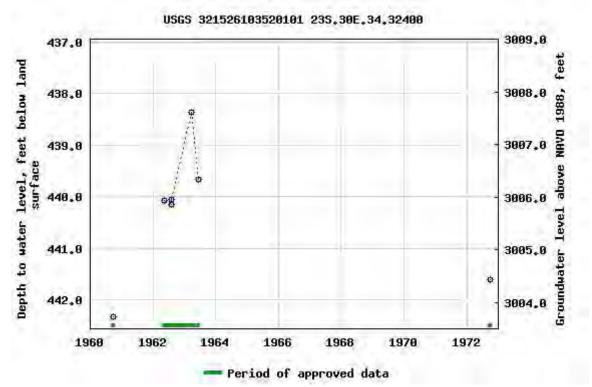
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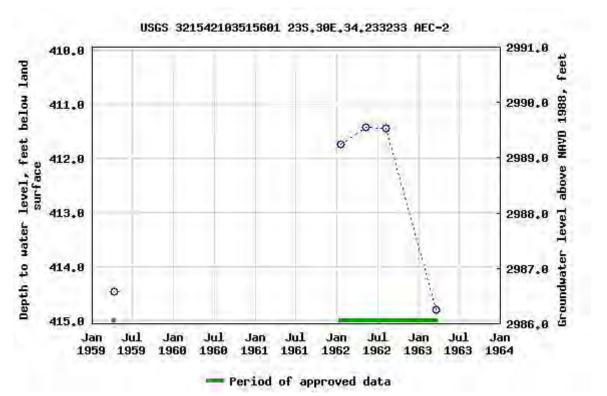
USGS 321542103515601 23S.30E.34.233233 AEC-2

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'42", Longitude 103°51'56" NAD27 Land-surface elevation 3,401 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer.

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Table of data	
Tab-separated data	
Graph of data	
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• 321542103522701

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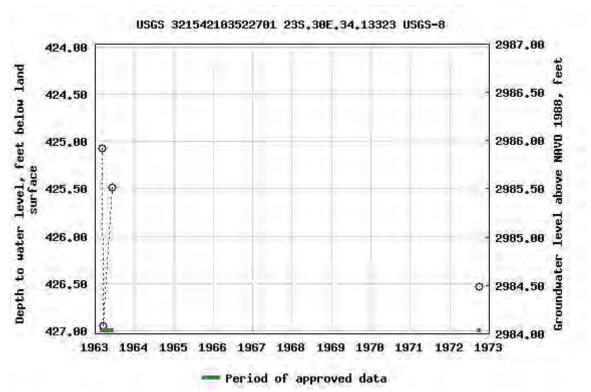
USGS 321542103522701 23S.30E.34.13323 USGS-8

Available data for this site Groundwater: Field measurements V

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°15'45.4", Longitude 103°52'34.64" NAD83 Land-surface elevation 3,411 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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Tab-separated data	
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site_no list =

• 321203103511801

Minimum number of levels = 1

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USGS 321203103511801 24S.30E.23.3124143

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°12'03", Longitude 103°51'18" NAD27 Land-surface elevation 3,423 feet above NAVD88 The depth of the well is 474 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

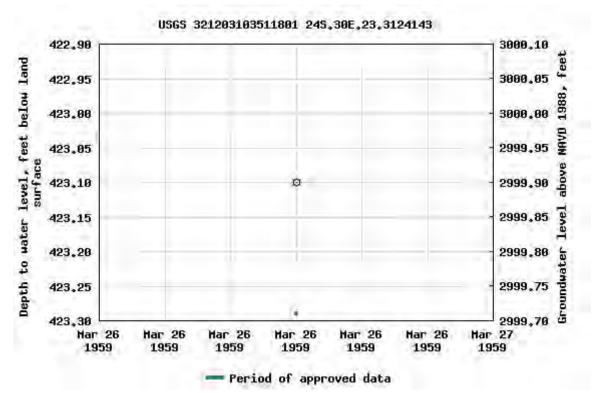
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USGS	Water	Resources	

Data Category: Groundwater Geographic Area: United States

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site_no list =

• 321214103525501

Minimum number of levels = 1

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USGS 321214103525501 24S.30E.21.23144

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°12'14", Longitude 103°52'55" NAD27 Land-surface elevation 3,371 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer.

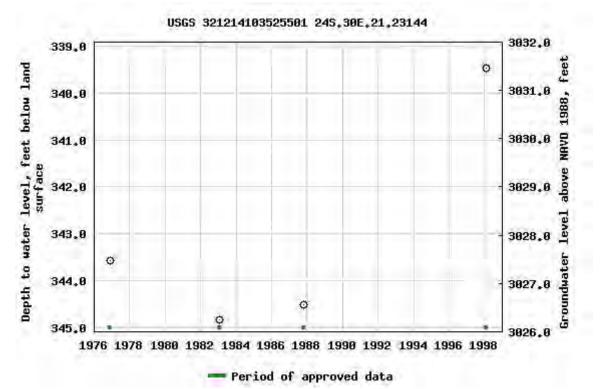
Output formats

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• 321334103494901

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USGS 321334103494901 24S.30E.12.432344

Available data for this site Groundwater: Field measurements 🗸

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°13'34", Longitude 103°49'49" NAD27 Land-surface elevation 3,522 feet above NAVD88 The depth of the well is 500 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

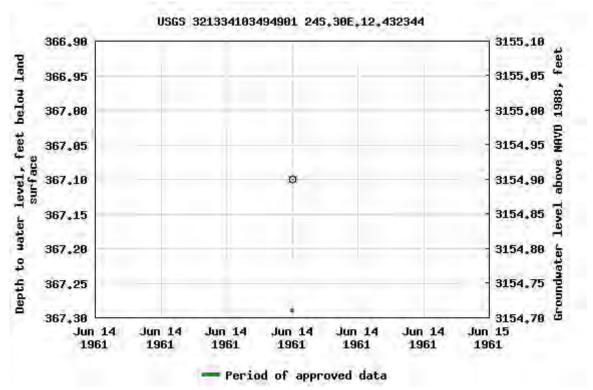
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



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PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Los Dos Medanos	012920135
	Eddy County, NM	

Photo No.	Date	
1	September 24,	
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2	October 8, 2020	
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	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Los Dos Medanos	012920135
	Eddy County, NM	

Photo No.	Date			
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Released to Imaging: 3/2/2021 12:53:53 PM

Project Location:

Project Id:

Contact:

eurofins Environment Testing Xenco

> 012920135 Dan Moir

Eddy County

Certificate of Analysis Summary 673636

LT Environmental, Inc., Arvada, CO

Project Name: Los Dos Medanos

Date Received in Lab: Fri 09.25.2020 14:20 **Report Date:** 09.29.2020 10:42

Project Manager: Jessica Kramer

	Lab Id:	673636-0	001	673636-0	002	673636-0	003	673636-0	004	673636-0	005	673636-0)06
Analysis Requested	Field Id:	FS01		FS02		FS03		FS04		SW01		SW02	
Anulysis Requested	Depth:	6- ft		6- ft		8- ft		8- ft	8- ft			0-8 ft	
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL		SOIL	,	SOIL	
	Sampled:	09.24.2020	14:15	09.24.2020	14:16	09.24.2020	14:21	09.24.2020	14:24	09.24.2020	14:40	09.24.2020	14:42
BTEX by EPA 8021B	Extracted:	09.28.2020	10:07	09.28.2020	10:07	09.28.2020	10:07	09.28.2020	10:07	09.28.2020	10:07	09.28.2020	10:07
	Analyzed:	09.28.2020	11:59	09.28.2020	15:04	09.28.2020	15:27	09.28.2020	15:49	09.28.2020	16:12	09.28.2020	17:25
	Units/RL:	mg/kg	RL										
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199
Ethylbenzene		< 0.00199	0.00199	0.00625	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	0.00995	0.00199	< 0.00199	0.00199
m,p-Xylenes		< 0.00398	0.00398	0.0317	0.00398	< 0.00402	0.00402	< 0.00400	0.00400	0.0723	0.00398	< 0.00398	0.00398
o-Xylene		< 0.00199	0.00199	0.0179	0.00199	0.0418	0.00201	< 0.00200	0.00200	0.0486	0.00199	< 0.00199	0.00199
Total Xylenes		< 0.00199	0.00199	0.0496	0.00199	0.0418	0.00201	< 0.00200	0.00200	0.121	0.00199	< 0.00199	0.00199
Total BTEX		< 0.00199	0.00199	0.0559	0.00199	0.0418	0.00201	< 0.00200	0.00200	0.131	0.00199	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	09.25.2020	15:09	09.25.2020	15:09	09.25.2020	15:09	09.25.2020	15:09	09.25.2020	15:09	09.25.2020	15:09
	Analyzed:	09.25.2020	16:41	09.25.2020	16:47	09.25.2020	17:03	09.25.2020	17:08	09.25.2020	17:25	09.25.2020	17:30
	Units/RL:	mg/kg	RL										
Chloride		10.4	10.0	<9.92	9.92	<9.96	9.96	<9.98	9.98	<9.96	9.96	<9.98	9.98
TPH by SW8015 Mod	Extracted:	09.25.2020	16:00	09.25.2020	16:00	09.25.2020	16:00	09.25.2020	16:00	09.25.2020	16:00	09.25.2020	16:00
	Analyzed:	09.25.2020	21:06	09.25.2020	22:07	09.25.2020	22:27	09.25.2020	22:47	09.28.2020	12:17	09.25.2020	23:27
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.1	50.1	<50.1	50.1	65.6	49.9	<50.2	50.2	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	711	50.1	245	50.1	2350	49.9	<50.2	50.2	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	71.2	50.1	<50.1	50.1	202	49.9	<50.2	50.2	<50.0	50.0
Total GRO-DRO		<49.9	49.9	711	50.1	245	50.1	2420	49.9	<50.2	50.2	<50.0	50.0
Total TPH		<49.9	49.9	782	50.1	245	50.1	2620	49.9	<50.2	50.2	<50.0	50.0

BRL - Below Reporting Limit

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

Jession VRAMER

Page 1 of 27

Project Id:

Project Location:

Contact:

eurofins Environment Testing Xenco

012920135 Dan Moir

Eddy County

Certificate of Analysis Summary 673636

LT Environmental, Inc., Arvada, CO

Project Name: Los Dos Medanos

 Date Received in Lab:
 Fri 09.25.2020 14:20

 Report Date:
 09.29.2020 10:42

Project Manager: Jessica Kramer

	Lab Id:	673636-0	07	673636-0	08		
Analysis Requested	Field Id:	SW03	SW03				
Anutysis Requested	Depth:	0-6 ft		0-8 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	09.24.2020	14:43	09.24.2020	14:45		
BTEX by EPA 8021B	Extracted:	09.28.2020	10:07	09.28.2020	10:07		
	Analyzed:	09.28.2020	17:54	09.28.2020	18:17		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00201	0.00201		
Toluene		< 0.00201	0.00201	< 0.00201	0.00201		
Ethylbenzene		< 0.00201	0.00201	< 0.00201	0.00201		
m,p-Xylenes		< 0.00402	0.00402	< 0.00402	0.00402		
o-Xylene		< 0.00201	0.00201	< 0.00201	0.00201		
Total Xylenes		< 0.00201	0.00201	< 0.00201	0.00201		
Total BTEX		< 0.00201	0.00201	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	09.25.2020	15:09	09.25.2020	15:09		
	Analyzed:	09.25.2020	17:36	09.25.2020	17:41		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		<9.96	9.96	<9.98	9.98		
TPH by SW8015 Mod	Extracted:	09.25.2020	16:00	09.25.2020	16:00		
	Analyzed:	09.25.2020	23:47	09.26.2020	00:08		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0		
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0		
Total GRO-DRO		<50.0	50.0	<50.0	50.0		
Total TPH		<50.0	50.0	<50.0	50.0		

BRL - Below Reporting Limit

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

Jession Vramer

Page 2 of 27

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Analytical Report 673636

Page 55 of 96

for

LT Environmental, Inc.

Project Manager: Dan Moir

Los Dos Medanos

012920135

09.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

09.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **673636** Los Dos Medanos Project Address: Eddy County

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 Eurofins Xenco, LLC Report Number(s) 673636. 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 Eurofins Xenco, LLC. 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. 673636 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Page 4 of 27



Sample Cross Reference 673636

Los Dos Medanos

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	09.24.2020 14:15	6 ft	673636-001
FS02	S	09.24.2020 14:16	6 ft	673636-002
FS03	S	09.24.2020 14:21	8 ft	673636-003
FS04	S	09.24.2020 14:24	8 ft	673636-004
SW01	S	09.24.2020 14:40	0 - 6 ft	673636-005
SW02	S	09.24.2020 14:42	0 - 8 ft	673636-006
SW03	S	09.24.2020 14:43	0 - 6 ft	673636-007
SW04	S	09.24.2020 14:45	0 - 8 ft	673636-008

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Los Dos Medanos

 Project ID:
 012920135

 Work Order Number(s):
 673636

 Report Date:
 09.29.2020

 Date Received:
 09.25.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins Environment Testing Xenco

Seq Number: 3138232

Certificate of Analytical Results 673636

Page 59 of 96

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS01 Lab Sample Id: 673636-001			Matrix: Soil Date Collected: 09.24.2020 14:15			Date Received:09.25.2020 14:20 Sample Depth: 6 ft			
Analytical M Tech: Analyst: Seq Number	Iethod: Chloride by E MAB MAB :: 3138248	PA 300	Date Prep:	09.25.2020 15:09		Prep Method: % Moisture: Basis:	E300P Wet Weight		
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil	
Chloride		16887-00-6	10.4	10.0	mg/kg	09.25.2020 16	5:41	1	
Analytical M Tech:	fethod: TPH by SW80 DTH	15 Mod				Prep Method: % Moisture:	SW8015P		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.25.2020 21:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.25.2020 21:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.25.2020 21:06	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	09.25.2020 21:06	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.25.2020 21:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	09.25.2020 21:06		
o-Terphenyl		84-15-1	85	%	70-135	09.25.2020 21:06		

Certificate of Analytical Results 673636

Los Dos Medanos

Sample Id: Lab Sample Id	FS01 d: 673636-001	Matrix: Date Collected	Soil 1: 09.24.2020 14:15	Date Received Sample Depth	l:09.25.2020 14:20 : 6 ft
Analytical Me Tech: Analyst:	ethod: BTEX by EPA 8021B MAB MAB	Date Prep:	09.28.2020 10:07	Prep Method: % Moisture: Basis:	SW5035A Wet Weight
Seq Number:	3138297				U

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.28.2020 11:59	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.28.2020 11:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	97	%	70-130	09.28.2020 11:59		
4-Bromofluorobenzene		460-00-4	112	%	70-130	09.28.2020 11:59		

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Certificate of Analytical Results 673636

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id:FS02Lab Sample Id:673636-002		Matrix: Date Colle	Soil ected: 09.24.2020 14:16		Date Received:09.25.2020 14:2 Sample Depth: 6 ft		
Analytical Method: Chloride by EF	PA 300				Prep Method: E30	OP	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	09.25.2020 15:09		Basis: Wet	t Weight	
Seq Number: 3138248		1					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	09.25.2020 16:47	U	1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW	8015P	
Tech: DTH					% Moisture:		
Analyst: DTH		Date Prep:	09.25.2020 16:00		Basis: We	t Weight	
Seq Number: 3138232						U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.25.2020 22:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	711	50.1	mo/ko	09 25 2020 22:07		1

Tech: DTH Analyst: DTH		Date P	rep: 09	.25.2020 16:00		% Moisture: Basis: We	et Weight	
Seq Number: 3138232								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.25.2020 22:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	711	50.1		mg/kg	09.25.2020 22:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	71.2	50.1		mg/kg	09.25.2020 22:07		1
Total GRO-DRO	PHC628	711	50.1		mg/kg	09.25.2020 22:07		1
Total TPH	PHC635	782	50.1		mg/kg	09.25.2020 22:07		1
Surrogate		Cas Number	% Recovery	y Units	Limits	Analysis Date	e Flag	
1-Chlorooctane		111-85-3	106	%	70-135	09.25.2020 22:0)7	
o-Terphenyl		84-15-1	96	%	70-135	09.25.2020 22:0	07	

Certificate of Analytical Results 673636

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS02 Lab Sample Id: 673636-002	Matrix: Soil Date Collected: 09.24.2020 14:16	Date Received:09.25.2020 14:20 Sample Depth: 6 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: SW5035A % Moisture:
Analyst: MAB Seq Number: 3138297	Date Prep: 09.28.2020 10:07	Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.28.2020 15:04	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.28.2020 15:04	U	1
Ethylbenzene	100-41-4	0.00625	0.00199		mg/kg	09.28.2020 15:04		1
m,p-Xylenes	179601-23-1	0.0317	0.00398		mg/kg	09.28.2020 15:04		1
o-Xylene	95-47-6	0.0179	0.00199		mg/kg	09.28.2020 15:04		1
Total Xylenes	1330-20-7	0.0496	0.00199		mg/kg	09.28.2020 15:04		1
Total BTEX		0.0559	0.00199		mg/kg	09.28.2020 15:04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	09.28.2020 15:04		
1,4-Difluorobenzene		540-36-3	96	%	70-130	09.28.2020 15:04		

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Certificate of Analytical Results 673636

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS03 Lab Sample Id: 673636-003		Matrix: Date Colle	Soil cted: 09.24.2020 14:21		Date Received:09. Sample Depth: 8 ft		:20
Analytical Method: Chloride by EF Tech: MAB	PA 300				Prep Method: E30 % Moisture:)0P	
Analyst: MAB Seq Number: 3138248		Date Prep:	09.25.2020 15:09		Basis: We	t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	09.25.2020 17:03	U	1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3138232	15 Mod	Date Prep:	09.25.2020 16:00		Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.25.2020 22:27	U	1
Diesel Range Organics (DRO)							1
0 0 1	C10C28DRO	245	50.1	mg/kg	09.25.2020 22:27		1 1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.25.2020 22:27	U	1 1 1
0 0 , ,						U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	09.25.2020 22:27	
o-Terphenyl	84-15-1	90	%	70-135	09.25.2020 22:27	

Certificate of Analytical Results 673636

Page 64 of 96

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS03	Matrix:	Soil	Date Received	1:09.25.2020 14:20
Lab Sample Id: 673636-003	Date Collected	l: 09.24.2020 14:21	Sample Depth	:: 8 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3138297	Date Prep:	09.28.2020 10:07	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.28.2020 15:27	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.28.2020 15:27	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.28.2020 15:27	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.28.2020 15:27	U	1
o-Xylene	95-47-6	0.0418	0.00201		mg/kg	09.28.2020 15:27		1
Total Xylenes	1330-20-7	0.0418	0.00201		mg/kg	09.28.2020 15:27		1
Total BTEX		0.0418	0.00201		mg/kg	09.28.2020 15:27		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	09.28.2020 15:27		
1,4-Difluorobenzene		540-36-3	99	%	70-130	09.28.2020 15:27		

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Certificate of Analytical Results 673636

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS04		Matrix:	Soil		Date Received:09.2	5.2020 14:	20
Lab Sample Id: 673636-004		Date Coll	lected: 09.24.2020 14:24		Sample Depth: 8 ft		
Analytical Method: Chloride by EPA	A 300				Prep Method: E300	OP	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep	o: 09.25.2020 15:09		Basis: Wet	Weight	
Seq Number: 3138248						U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	09.25.2020 17:08	U	1
Analytical Method: TPH by SW801:	5 Mod				Prep Method: SW8	3015P	
Tech: DTH	5 Mod		00.05.0000.1<00		% Moisture:		
Tech: DTH Analyst: DTH	5 Mod	Date Prep	p: 09.25.2020 16:00		% Moisture:	8015P Weight	
Tech: DTH	5 Mod	Date Prep	o: 09.25.2020 16:00		% Moisture:		
Tech: DTH Analyst: DTH Seq Number: 3138232	5 Mod Cas Number	Date Prep Result	o: 09.25.2020 16:00 RL	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3138232 Parameter				Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3138232 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	Weight	
Tech: DTH Analyst: DTH Seq Number: 3138232 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result 65.6	RL 49.9	mg/kg	% Moisture: Basis: Wet Analysis Date 09.25.2020 22:47	Weight	1
Tech: DTH Analyst: DTH Seq Number: 3138232 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	Result 65.6 2350	RL 49.9 49.9	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.25.2020 22:47 09.25.2020 22:47	Weight	1
Tech: DTH Analyst: DTH	Cas Number PHC610 C10C28DRO PHCG2835	Result 65.6 2350 202	RL 49.9 49.9 49.9	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.25.2020 22:47 09.25.2020 22:47 09.25.2020 22:47 09.25.2020 22:47	Weight	1 1 1

107

101

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

09.25.2020 22:47

09.25.2020 22:47

70-135

70-135

%

%

Certificate of Analytical Results 673636

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: Lab Sample I	FS04 (d: 673636-004	Matrix: Date Collecte	Soil d: 09.24.2020 14:24	Date Received Sample Depth	1:09.25.2020 14:20 :: 8 ft
Analytical M Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3138297	Date Prep:	09.28.2020 10:07	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	09.28.2020 15:49	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.28.2020 15:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	09.28.2020 15:49		
1,4-Difluorobenzene		540-36-3	104	%	70-130	09.28.2020 15:49		

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Certificate of Analytical Results 673636

Page 67 of 96

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Los Dos Medanos

Sample Id: SW01 Lab Sample Id: 673636-005		Matrix: Date Collec	Soil cted: 09.24.2020 14:40		Date Received: Sample Depth:		20
Analytical Method:Chloride by ETech:MABAnalyst:MABSeq Number:3138248	PA 300	Date Prep:	09.25.2020 15:09		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	09.25.2020 17:	25 U	1

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	09.28.2020 12:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	09.28.2020 12:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	09.28.2020 12:17	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	09.28.2020 12:17	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	09.28.2020 12:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	134	%	70-135	09.28.2020 12:17		
o-Terphenyl		84-15-1	119	%	70-135	09.28.2020 12:17		

Certificate of Analytical Results 673636

Los Dos Medanos

Sample Id: SW(Lab Sample Id: 6736		Matrix: Date Collected	Soil 09.24.2020 14:40	Date Received Sample Depth:	:09.25.2020 14:2 0 - 6 ft	0
Analytical Method: Tech: MAB	BTEX by EPA 8021B			Prep Method: % Moisture:	SW5035A	
Analyst: MAB Seq Number: 31382		Date Prep:	09.28.2020 10:07	Basis:	Wet Weight	
Parameter		Result DI	Unite	A nolveie De	to Elog	Ъ

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.28.2020 16:12	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.28.2020 16:12	U	1
Ethylbenzene	100-41-4	0.00995	0.00199		mg/kg	09.28.2020 16:12		1
m,p-Xylenes	179601-23-1	0.0723	0.00398		mg/kg	09.28.2020 16:12		1
o-Xylene	95-47-6	0.0486	0.00199		mg/kg	09.28.2020 16:12		1
Total Xylenes	1330-20-7	0.121	0.00199		mg/kg	09.28.2020 16:12		1
Total BTEX		0.131	0.00199		mg/kg	09.28.2020 16:12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	09.28.2020 16:12		
4-Bromofluorobenzene		460-00-4	124	%	70-130	09.28.2020 16:12		

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Certificate of Analytical Results 673636

Page 69 of 96

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Analytical Method: Chloride by EPA 300 Prep Method: E300P Tech: MAB MAB % Moisture: % Moisture: Analyst: MAB Date Prep: 09.25.2020 15:09 Basis: Wet Weight Seq Number: 3138248 Flag Chloride 16887-00-6 <9.98 9.98 mg/kg 09.25.2020 17:30 U	Sample Id:SW02Lab Sample Id:673636-006			Matrix: Date Col	Soil lected: 09.24.2020 14:42	Date Received:09.25.2020 Sample Depth: 0 - 8 ft			1:20
	Tech: Analyst:	MAB MAB	PA 300	Date Pre	p: 09.25.2020 15:09		% Moisture:		
Chloride 16887-00-6 <9.98 9.98 mg/kg 09.25.2020 17:30 U	Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
	Chloride		16887-00-6	<9.98	9.98	mg/kg	09.25.2020 17:30	U	1

15 Mod					Prep Method: S	W8015P	
					% Moisture:		
	Date P	rep: 09.2	5.2020 16:00	1	Basis: V	Vet Weight	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<50.0	50.0		mg/kg	09.25.2020 23:2	7 U	1
C10C28DRO	<50.0	50.0		mg/kg	09.25.2020 23:2	7 U	1
PHCG2835	<50.0	50.0		mg/kg	09.25.2020 23:2	7 U	1
PHC628	<50.0	50.0		mg/kg	09.25.2020 23:2	7 U	1
PHC635	<50.0	50.0		mg/kg	09.25.2020 23:2	7 U	1
	Cas Number	% Recovery	Units	Limits	Analysis Da	ite Flag	
	111-85-3	99	%	70-135	09.25.2020 23	3:27	
	84-15-1	90	%	70-135	09.25.2020 23	3:27	
	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Cas Number Result PHC610 <50.0	Date Prep: 09.2 Cas Number Result RL PHC610 <50.0	Cas Number Result RL PHC610 <50.0	Cas Number Result RL Units PHC610 <50.0	Cas Number Result RL Units Analysis Date PHC610 <50.0	Y Moisture: Date Prep: 09.25.2020 16:00 Basis: Wet Weight Cas Number Result RL Units Analysis Date Flag PHC610 <50.0

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Sample Id: SW02 Lab Sample Id: 673636-006	Matrix: Soil Date Collected: 09.24	4.2020 14:42	Date Received Sample Depth	1:09.25.2020 14:20 : 0 - 8 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3138297	Date Prep: 09.28	8.2020 10:07	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.28.2020 17:25	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.28.2020 17:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	09.28.2020 17:25		
1,4-Difluorobenzene		540-36-3	94	%	70-130	09.28.2020 17:25		

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Los Dos Medanos

Sample Id: SW03 Lab Sample Id: 673636-007	Matrix: Date Collec	Soil eted: 09.24.2020 14:43		Date Received:09.25.2020 14:20 Sample Depth: 0 - 6 ft			
Analytical Method:Chloride byTech:MABAnalyst:MABSeq Number:3138248	EPA 300	Date Prep:	09.25.2020 15:09		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	09.25.2020 17:	:36 U	1

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.25.2020 23:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.25.2020 23:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.25.2020 23:47	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	09.25.2020 23:47	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.25.2020 23:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	09.25.2020 23:47		
o-Terphenyl		84-15-1	90	%	70-135	09.25.2020 23:47		

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Sample Id: Lab Sample I	SW03 d: 673636-007	Matrix: Date Collected	Soil d: 09.24.2020 14:43	Date Received Sample Depth	1:09.25.2020 14:20 : 0 - 6 ft
Analytical Mo Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3138297	Date Prep:	09.28.2020 10:07	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.28.2020 17:54	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.28.2020 17:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	09.28.2020 17:54		
1,4-Difluorobenzene		540-36-3	96	%	70-130	09.28.2020 17:54		

Certificate of Analytical Results 673636

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Los Dos Medanos

Sample Id: Lab Sample Id	SW04 : 673636-008		Matrix: Date Col	Soil lected: 09.24.2020 14:45		Date Received:09.2 Sample Depth: 0 - 8		4:20
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by E MAB MAB 3138248	PA 300	Date Pre	p: 09.25.2020 15:09		Prep Method: E30 % Moisture: Basis: Wet	0P Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<9.98	9.98	mg/kg	09.25.2020 17:41	U	1

Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3138232	5 Mod	Date P	rep: 09.	25.2020 16:00		Prep Method: S % Moisture: Basis: W	W8015P ⁷ et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.26.2020 00:08	3 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.26.2020 00:08	3 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.26.2020 00:08	3 U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	09.26.2020 00:08	8 U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.26.2020 00:08	3 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	102	%	70-135	09.26.2020 00	:08	
o-Terphenyl		84-15-1	91	%	70-135	09.26.2020 00	:08	

Certificate of Analytical Results 673636

Page 74 of 96

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: SW04	Matrix:	Soil	Date Received	1:09.25.2020 14:20
Lab Sample Id: 673636-008	Date Collected	: 09.24.2020 14:45	Sample Depth	: 0 - 8 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3138297	Date Prep:	09.28.2020 10:07	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.28.2020 18:17	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.28.2020 18:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.28.2020 18:17		
4-Bromofluorobenzene		460-00-4	110	%	70-130	09.28.2020 18:17		

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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.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 673636

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Analytical Method: Seq Number: MB Sample Id:	Chloride b 3138248 7712181-1-	-	00		Matrix: nple Id:	Solid 7712181-1	1-BKS			rep Methe Date Pr D Sample	ep: 09.2	0P 25.2020 2181-1-BSD	
Parameter		MB	Spike	LCS Result		LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		Result <10.0	Amount 250	Result 255	%Rec 102	Result 254	%Rec 102	90-110	0	20	mg/kg	09.25.2020 15:08	
Chionae		(10.0	250	255	102	234	102	<i>y</i> 0 110	Ū	20	0.0		
Analytical Method:		y EPA 3()0		M	C - 11			Pı	rep Meth			
Seq Number: Parent Sample Id:	3138248 673572-001				Matrix:	673572-00	01 S		MS	Date Pr D Sample	-	25.2020 572-001 SD	
Parameter	075572-001	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		182	201	393	105	393	105	90-110	0	20	mg/kg	09.25.2020 15:24	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3138248 673636-002	-)0		Matrix: nple Id:	Soil 673636-00	02 S			rep Methe Date Pr D Sample	ep: 09.2	0P 25.2020 636-002 SD	
Parameter		Parent	Spike	MS Result	MS	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		Result <9.98	Amount 200	207	%Rec 104	Result 208	%Rec 104	90-110	0	20	mg/kg	09.25.2020 16:52	
Analytical Method: Seq Number: MB Sample Id:	TPH by SV 3138232 7712116-1-		od		Matrix: nple Id:	Solid 7712116-	1-BKS			rep Methe Date Pr D Sample	ep: 09.2	8015P 25.2020 2116-1-BSD	
Parameter		MB	Spike	LCS Result	LCS %Rec	LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	Result <50.0	Amount 1000	896	%K ec 90	Result 890	%Rec 89	70-135	1	35	mg/kg	09.25.2020 20:26	
Diesel Range Organics	(DRO)	<50.0	1000	780	78	769	77	70-135	1	35	mg/kg	09.25.2020 20:26	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		87			29		130			-135	%	09.25.2020 20:26	
o-Terphenyl		84		1	20		121		70	-135	%	09.25.2020 20:26	
Analytical Method: Seq Number:	TPH by SV 3138232	V8015 M	od		Matrix: nple Id:	Solid 7712116-	1-BLK		Pi	rep Methe Date Pr		8015P 25.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	09.25.2020 20:06	

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

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

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Page 24 of 27

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QC Summary 673636

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Analytical Method:	TPH by SV	W8015 M	od						Pi	rep Metho	od: SW	8015P	
Seq Number:	3138232]	Matrix:	Soil				Date Pr	ep: 09.2	25.2020	
Parent Sample Id:	673636-00	1		MS San	nple Id:	673636-00	01 S		MS	D Sample	e Id: 673	636-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.0	1000	1040	104	1040	104	70-135	0	35	mg/kg	09.25.2020 21:27	
Diesel Range Organics ((DRO)	<50.0	1000	1080	108	1080	108	70-135	0	35	mg/kg	09.25.2020 21:27	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	20		121		70	-135	%	09.25.2020 21:27	
o-Terphenyl				9	7		98		70	-135	%	09.25.2020 21:27	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3138297			Matrix:	Solid				Date Pr	ep: 09.2	28.2020	
MB Sample Id:	7712178-1-BLK		LCS San	nple Id:	7712178-	I-BKS		LCS	D Sample	e Id: 771	2178-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0905	91	0.0972	97	70-130	7	35	mg/kg	09.28.2020 10:23	
Toluene	< 0.00200	0.100	0.0854	85	0.0900	90	70-130	5	35	mg/kg	09.28.2020 10:23	
Ethylbenzene	< 0.00200	0.100	0.0860	86	0.0920	92	71-129	7	35	mg/kg	09.28.2020 10:23	
m,p-Xylenes	< 0.00400	0.200	0.174	87	0.185	93	70-135	6	35	mg/kg	09.28.2020 10:23	
o-Xylene	< 0.00200	0.100	0.0883	88	0.0959	96	71-133	8	35	mg/kg	09.28.2020 10:23	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		ç	98		102		70	-130	%	09.28.2020 10:23	
4-Bromofluorobenzene	115		1	06		112		70	-130	%	09.28.2020 10:23	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3138297 673636-001	1B		Matrix: nple Id:	Soil 673636-00)1 S			rep Metho Date Pr D Sample	ep: 09.2	5035A 28.2020 636-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0965	97	0.0930	93	70-130	4	35	mg/kg	09.28.2020 12:27	
Toluene	< 0.00200	0.100	0.0912	91	0.0900	90	70-130	1	35	mg/kg	09.28.2020 12:27	
Ethylbenzene	< 0.00200	0.100	0.0987	99	0.0950	95	71-129	4	35	mg/kg	09.28.2020 12:27	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.192	96	70-135	5	35	mg/kg	09.28.2020 12:27	
o-Xylene	< 0.00200	0.100	0.0985	99	0.0960	96	71-133	3	35	mg/kg	09.28.2020 12:27	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		98		70	-130	%	09.28.2020 12:27	
4-Bromofluorobenzene			1	13		106		70	-130	%	09.28.2020 12:27	

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

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

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

.

Page 25 of 27

		Hobbs,NM	(575-392-7550) Phoe	nix.AZ (480-355-0900) Atl	Midiand, IX (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)		-
Project Manager:	Dan Moir		Bill to: (if different)	erent) Kyle Littrell	indian factor factor in the second	WV	Page of
Company Name:	LT Environmental, Inc.,	, Permian office	Company Name:			WORK	
Address:	3300 North A Street		Address:			State of Project:	ds LRC Derfund
City, State ZIP:	Midland, Tx 79705		City, State ZIP:	ZIP:]
Phone:	(432) 236-3849		Email: wmather@ltenv.com,	tenv.com, dmoir@ltenv.com	20m	Deliverables: EDD ADaPT	D Other:
Project Name:	Los Dos Medanos	edanos	Turn Around				Walton
Project Number:	<i>(</i>)12920135	35	Routine P				WORK Order Notes
P.O. Number:	Eddy						
Sampler's Name:	William Mather	ather	Due Date:				
SAMPLE RECEIPT	_	Yes No	Wet Ice: Yes No				
Temperature (°C):	4.8 4.6	C	E	ers			
Received Intact:	(Yes) No	TUNO	77	1)			
Cooler Custody Seals:	Ye	Correction Factor:	Factor: -0.9	15) =802	4 30(
Sample Custody Seals:	: Yes (No) N/A	Total Containers:	80	PA 80	= (EP)	TA	TAT starts the day received by the lab, if received by 4:30pm
Sample Identification	fication Matrix	Date Ti Sampled Sam	Time Depth	Numb ГРН (E BTEX (Chlorid		Sample Comments
FS01	S	9/24/2020 14	14:15 6'	× •	× (
FS02	S			×			Composite
FS03	s		14:21 8'	×			Composite
FS04	s	9/24/2020 14:24	24 8'	×			Composite
SW01	s		2.1	×			Composite
SW02	s		42 0-8'	×			Composite
SW03	s	-		×			Composite
SW04				× >			Composite
1			-	>			Composite
		4	1 d				
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		RCRA 13PPM Texas 11 A	11 Al Sb As Ba Be CRA Sb As Ba Be	B Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mo Ni	Mn Mo Ni K Se Ag SiO2 Aa Ti U	1 Na Sr TI Sn U V Zn 1631 1945 1 17470 17474 - U-
Service. Xenco will be liable Xenco. A minimum charge	tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcom service. 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 Xenco. A minimum charge of \$75 on will be control to any the client of the control of the control of the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such	amples constitutes a vision of the second shall not assume	any responsibility for a	m client company to Xenco, i iny losses or expenses incun	tice: 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 service. 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 cost of Xenco. A minimum charge of \$75 no will be contracted to 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 cost of Xenco.	-	
Relinquished by; (Signature)	ignature)	Received by: (Sig	(Signature)	Date/Time	Dolinguiched but (Circuit	s previously i	
P W W				9/05/20 14:20	2	e) Received by: (Signature)	Date/Time
		1					

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 09.25.2020 02.20.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 673636	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	4.6	
#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	Samples received in bulk containers.
#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:

Date: 09.25.2020

Checklist reviewed by: Jessica Kramer

Date: 09.28.2020

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Xenco

Project Id: 12920135 Dan Moir **Contact:**

Eddy County **Project Location:**

Certificate of Analysis Summary 674774

LT Environmental, Inc., Arvada, CO

Project Name: Los Dos Medanos

Date Received in Lab: Fri 10.09.2020 10:36 **Report Date:** 10.12.2020 16:35

Project Manager: Jessica Kramer

	Lab Id:	674774-0	01	674774-00	02	674774-0	003		
Analysis Requested	Field Id:	FS02A	<u>۲</u>	FS03A		FS04A			
Analysis Requesieu	Depth:	9- ft		10.5- ft		10.5- f	t		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	10.08.2020	10:55	10.08.2020	14:45	10.08.2020	14:50		
BTEX by EPA 8021B	Extracted:	10.09.2020	11:03	10.09.2020	11:03	10.09.2020	11:03		
	Analyzed:	10.09.2020	16:03	10.09.2020	16:26	10.09.2020	16:48		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
m,p-Xylenes		< 0.00401	0.00401	< 0.00401	0.00401	< 0.00396	0.00396		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198		
Chloride by EPA 300	Extracted:	10.09.2020	11:37	10.09.2020	11:37	10.09.2020	11:37		
	Analyzed:	10.09.2020	13:15	10.09.2020	13:31	10.09.2020	13:37		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.94	9.94	<9.94	9.94	<9.98	9.98		
TPH by SW8015 Mod	Extracted:	10.09.2020	15:00	10.09.2020	15:00	10.09.2020	15:00		
	Analyzed:	10.09.2020	16:39	10.09.2020	16:59	10.09.2020	17:38		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.3	50.3	<50.1	50.1		
Diesel Range Organics (DRO)		<49.9	49.9	<50.3	50.3	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.3	50.3	<50.1	50.1		
Total GRO-DRO		<49.9	49.9	<50.3	50.3	<50.1	50.1		
Total TPH		<49.9	49.9	<50.3	50.3	<50.1	50.1		

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 16

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Analytical Report 674774

for

LT Environmental, Inc.

Project Manager: Dan Moir

Los Dos Medanos

12920135

10.12.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

10.12.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **674774** Los Dos Medanos Project Address: Eddy County

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 Eurofins Xenco, LLC Report Number(s) 674774. 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 Eurofins Xenco, LLC. 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. 674774 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 674774

Los Dos Medanos

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS02A	S	10.08.2020 10:55	9 ft	674774-001
FS03A	S	10.08.2020 14:45	10.5 ft	674774-002
FS04A	S	10.08.2020 14:50	10.5 ft	674774-003

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Los Dos Medanos

 Project ID:
 12920135

 Work Order Number(s):
 674774

Report Date: 10.12.2020 Date Received: 10.09.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3139327 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 674774-003.

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Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS02A Lab Sample Id: 674774-001		Matrix: Date Co	Soil llected: 10.08	.2020 10:55		Date Received:10.09 Sample Depth: 9 ft	9.2020 10	:36
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Pre	p: 10.09	.2020 11:37		% Moisture:		
Seq Number: 3139292			1			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94		mg/kg	10.09.2020 13:15	U	1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3139327	15 Mod	Date Pre	ер: 10.09.	.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	p: 10.09 RL	.2020 15:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3139327			r ·	.2020 15:00		% Moisture: Basis: Wet	Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter	Cas Number	Result	RL	.2020 15:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 15:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:39	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.2020 15:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:39 10.09.2020 16:39	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.2020 15:00	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9	.2020 15:00 Units	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39	Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9 49.9		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 10.09.2020 16:39 300000000000000000000000000000000000	Weight Flag U U U U U U	1 1 1 1

Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS02A	Matrix: So		Date Received:10.09.2020 10:36		
Lab Sample Id: 674774-001	Date Collected: 10		Sample Depth: 9 ft		
Analytical Method: BTEX by EPA 8 Tech: MAB Analyst: MAB Seq Number: 3139330		0 09 2020 11:03	Prep Method: % Moisture: Basis:	SW5035A Wet Weight	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.09.2020 16:03	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.09.2020 16:03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.09.2020 16:03		
4-Bromofluorobenzene		460-00-4	122	%	70-130	10.09.2020 16:03		

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Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id:FS03ALab Sample Id:674774-002		Matrix: Date Col		Date Received:10.09.2020 10:36 Sample Depth: 10.5 ft				
Analytical Method: Chloride by EP	PA 300					Prep Method: E300)P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 10.09	.2020 11:37		% Moisture: Basis: Wet	Weislet	
Seq Number: 3139292						Basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94		mg/kg	10.09.2020 13:31	U	1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3139327	15 Mod	Date Pre	ер: 10.09	.2020 15:00		% Moisture:	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	ep: 10.09 RL	.2020 15:00	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3139327			-	.2020 15:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter	Cas Number	Result	RL	.2020 15:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.3	RL 50.3	.2020 15:00	mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:59	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.3 <50.3	RL 50.3 50.3	.2020 15:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:59 10.09.2020 16:59	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.3 <50.3 <50.3	RL 50.3 50.3 50.3	.2020 15:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3139327ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.3 <50.3 <50.3 <50.3 <50.3 <50.3	RL 50.3 50.3 50.3 50.3 50.3	.2020 15:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59	Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.3 <50.3 <50.3 <50.3 <50.3 <50.3	RL 50.3 50.3 50.3 50.3 50.3 50.3		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Maalysis Date 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59 10.09.2020 16:59	Weight Flag U U U U U U	1 1 1 1

Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id:FS03ALab Sample Id:674774-002	Matrix: Date Collecte	Soil d: 10.08.2020 14:45	Date Received:10.09.2020 10:36 Sample Depth: 10.5 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MAB	Date Prep:	10.09.2020 11:03	Prep Method: % Moisture: Basis:	SW5035A Wet Weight	
Seq Number: 3139330				C	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.09.2020 16:26	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.09.2020 16:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	10.09.2020 16:26		
1,4-Difluorobenzene		540-36-3	102	%	70-130	10.09.2020 16:26		

Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS04A Lab Sample Id: 674774-003		Matrix: Date Co	Soil llected: 10.08	.2020 14:50		Date Received:10.09 Sample Depth: 10.5		36
Analytical Method: Chloride by EP	PA 300					Prep Method: E300)P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 10.09	.2020 11:37		% Moisture: Basis: Wet	W/-:-1-4	
Seq Number: 3139292						basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98		mg/kg	10.09.2020 13:37	U	1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3139327	15 Mod	Date Pre	ep: 10.09	.2020 15:00		% Moisture:	015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	ep: 10.09 RL	.2020 15:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3139327				.2020 15:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter	Cas Number	Result	RL	.2020 15:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 15:00	mg/kg	% Moisture: Basis: Wet Maalysis Date 10.09.2020 17:38	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.2020 15:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.09.2020 17:38 10.09.2020 17:38	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 15:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Y Analysis Date 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1	.2020 15:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Malysis Date 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38	Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3139327 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Maalysis Date 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38 10.09.2020 17:38	Weight Flag U U U U U U	1 1 1 1

Certificate of Analytical Results 674774

LT Environmental, Inc., Arvada, CO

Los Dos Medanos

Sample Id: FS04A Lab Sample Id: 674774-003	Matrix: Date Collecte	Soil d: 10.08.2020 14:50	Date Received:10.09.2020 10:36 Sample Depth: 10.5 ft		
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep:	10.09.2020 11:03	Prep Method: % Moisture: Basis:	SW5035A Wet Weight	
Seq Number: 3139330					

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	10.09.2020 16:48	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
Total BTEX		<0.00198	0.00198		mg/kg	10.09.2020 16:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	10.09.2020 16:48		
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.09.2020 16:48		

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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.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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

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QC Summary 674774

LT Environmental, Inc.

Los Dos Medanos

					L	os Dos M	edanos						
Analytical Method: Seq Number: MB Sample Id:	Chloride 3139292 7712956	-)0		Matrix: nple Id:	Solid 7712956-	1-BKS			rep Meth Date Pr D Sample	ep: 10.0	00P 09.2020 2956-1-BSD	
Parameter	1112550	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <10.0	Amount 250	Result 262	%Rec 105	Result 263	%Rec 105	90-110	0	Limit 20	mg/kg	Date 10.09.2020 10:50	1
Chionae		<10.0	230	202	105	205	105	<i>y</i> 0 110	0	20	ing/ kg		
Analytical Method: Seq Number: Parent Sample Id:	Chloride 3139292 674743-0	•)0		Matrix: nple Id:	Soil 674743-00	01 S			rep Meth Date Pr D Sample	ep: 10.0	00P 09.2020 743-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		131	201	337	102		104	90-110	1	20	mg/kg	10.09.2020 12:04	
Analytical Method: Seq Number: MB Sample Id:	TPH by 3139327 7712986		od	LCS Sar	Matrix: nple Id:	Solid 7712986-	1-BKS		LCS	•	ep: 10.0	8015P)9.2020 2986-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo		<50.0	1000	879	88	863	86	70-135	2	35	mg/kg	10.09.2020 10:43	
Diesel Range Organics ((DRO)	<50.0	1000	929	93	911	91	70-135	2	35	mg/kg	10.09.2020 10:43	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		95 90			11 94		119 93			-135 -135	% %	10.09.2020 10:43 10.09.2020 10:43	
Analytical Method: Seq Number:	TPH by 3139327	SW8015 M	od		Matrix: nple Id:	Solid 7712986-	1-BLK		Pi	rep Meth Date Pr		8015P)9.2020 Analysis	
Parameter				Result							Omts	Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	10.09.2020 11:23	
Analytical Method: Seq Number: Parent Sample Id:	TPH by 3139327 674634-0)68		MS Sar	-	674634-0			MS	-	ep: 10.0 e Id: 674	8015P)9.2020 634-068 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (<50.0 <50.0	1000 1000	959 996	96 100		90 94	70-135 70-135	6 5	35 35	mg/kg mg/kg	10.09.2020 12:03 10.09.2020 12:03	
Surrogate					IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane					28		132			-135	%	10.09.2020 12:03	
o-Terphenyl				1	09		104		70	-135	%	10.09.2020 12:03	
MS/MSD Percent Recover Relative Percent Differenc LCS/LCSD Recovery Log Difference		[D] = 100 * ((C-E) / (C+E)		(Original S	Sample)	A C	CS = Labora = Parent Ro = MS/LCS = MSD/LC	esult Result		$B = S_1$	Matrix Spike pike Added SD/LCSD % Rec	

Page 13 of 16

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Environment Testing

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QC Summary 674774

LT Environmental, Inc.

Los Dos Medanos

Analytical Method:	BTEX by EPA 8021	IB						Р	rep Meth	od: SW	5035A	
Seq Number:	3139330]	Matrix:	Solid				Date Pr	ep: 10.0	9.2020	
MB Sample Id:	7712983-1-BLK		LCS San	nple Id:	7712983-	1-BKS		LCS	D Sample	e Id: 771	2983-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0932	93	0.0951	95	70-130	2	35	mg/kg	10.09.2020 11:27	
Toluene	< 0.00200	0.100	0.0884	88	0.0913	91	70-130	3	35	mg/kg	10.09.2020 11:27	
Ethylbenzene	< 0.00200	0.100	0.0907	91	0.0940	94	71-129	4	35	mg/kg	10.09.2020 11:27	
m,p-Xylenes	< 0.00400	0.200	0.188	94	0.188	94	70-135	0	35	mg/kg	10.09.2020 11:27	
o-Xylene	< 0.00200	0.100	0.0945	95	0.0934	93	71-133	1	35	mg/kg	10.09.2020 11:27	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		1	00		102		70)-130	%	10.09.2020 11:27	
4-Bromofluorobenzene	111		1	09		111		70	0-130	%	10.09.2020 11:27	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3139330 674743-001	B		Matrix: nple Id:)1 S			rep Metho Date Pro D Sample	ep: 10.0	5035A)9.2020 743-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.121	121	0.124	124	70-130	2	35	mg/kg	10.09.2020 12:12	
Toluene	< 0.00199	0.0996	0.114	114	0.118	118	70-130	3	35	mg/kg	10.09.2020 12:12	
Ethylbenzene	< 0.00199	0.0996	0.118	118	0.122	122	71-129	3	35	mg/kg	10.09.2020 12:12	
m,p-Xylenes	< 0.00398	0.199	0.239	120	0.248	125	70-135	4	35	mg/kg	10.09.2020 12:12	
o-Xylene	< 0.00199	0.0996	0.119	119	0.122	122	71-133	2	35	mg/kg	10.09.2020 12:12	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		103		70	-130	%	10.09.2020 12:12	
4-Bromofluorobenzene			1	10		111		70	-130	%	10.09.2020 12:12	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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Page 14 of 16

13PPM Texas 11 A						A 450 555 mpine lain	rmom Distance of the second se	Vet Wet Un Fac Contain Time Sample 1055 1445	RCRA	We W	Thermore W Thermore W The W Thermore W Thermore W Thermore W Thermore W Thermore W Thermore W Therm	Thermore W W W W W W W W W W W W W W W W W W W	al Conta Thermo	LT Environmental, Inc., Permian office 3300 North A Street Midland, Tx 79705 (432) 236-3849 Environmental, Inc., Permian office Los Dos Medanos 12920135 Eddy County Environmental, Inc., Permian office Los Dos Medanos 12920135 Eddy County Environmental, Inc., Permian office Los Dos Medanos 12920135 Eddy County Environmental, Inc., Permian office Incomplexity Environmental, Inc., Permian office Los Dos Medanos 12920135 Eddy County Environmental, Inc., Permian office Incomplexity Incomplexity Incomplexity Incomplexity Incomplexity Incomplexity Incation Matrix S 10/08/20 Incomplexity Incomplexity Incomplexity Incomplexity Incomplexity Incomplexity <t< th=""></t<>
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and a					→ → → Number of C × × × TPH (EPA 801	→ → → Number of Contai	→ → → Number of Containers × × × TPH (EPA 8015)	Image: state	Image: state	Image: state	Image: Second secon	→ → → Number of Containers	Image: Second	51 52 West Mine: XTO Energy 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 Al	2000												Nond R220 ond	ond SZO
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											ANALYSIS REQUEST	ANALYSIS REQUEST	ANALYSIS REQUEST	

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC									
Date/ Time Received: 10.09.2020 10.36.00 AM	Air and Metal samples Acceptable Range: Ambient									
Work Order #: 674774	Temperature Measuring device used: T_NM_007									
Sample Recei	pt Checklist	Comments								
#1 *Temperature of cooler(s)?	.8									
#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	Samples received in bulk containers.								
#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:

Date: 10.09.2020

Checklist reviewed by: Jessica Kramer

Date: 10.12.2020

CONDITIONS

Action 12040

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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 Ho Building #5 Midland, TX79707	bliday Hill Road	OGRID: 5380	Action Number: 12040	Action Type: C-141						
OCD Reviewer Condition chensley Closure report has been approved and closed.										