OCTOBER 10, 2019

RELEASE CLOSURE REPORT

XTO ENERGY, INC. – ARROWHEAD GRAYBURG UNIT #135

1RP-4414

Prepared for: XTO Energy, Inc.

Prepared by: Sport Environmental Services, LLC

502 N. Big Spring St.

Midland, TX 79701

www.sportenv.com

October 10, 2019

Environmental Specialist Team
New Mexico Oil Conservation Division
District 1 (Hobbs)
1625 N. French Dr.
Hobbs, NM 882140

Re: Release Closure Report
XTO Energy, Inc.
Arrowhead Grayburg Unit #135
RP #: 1R-4414
API #: 30-025-04917
Approximate Geographic Coordinates: 32.43793, -103.23019
Unit Letter J, Section 35, Township 21S, Range 36E
Lea County, New Mexico

Dear NMOCD Environmental Specialists:

This documentation is being provided as part of XTO Energy, Inc. *(XTO* or *Client)* efforts to address historical releases that may have been addressed in the past, but which appear not to have documentation from the New Mexico Oil Conservation Division *(NMOCD)* clearly demonstrating approved closure of the release. The release referenced above was included in the list of historical releases which occurred prior to August 14, 2018 that are intended to be addressed as described within the "Compliance Agreement for Remediation for Historical Releases" *(Compliance Agreement)* entered into by NMOCD and XTO on November 8, 2018.

Executive Summary

Sport Environmental Services, LLC has prepared, on behalf of XTO, a Release Closure Report for the Arrowhead Grayburg Unit #135 *(subject site)* where, based on a review of NMOCD records, a release of produced water had occurred. This request for closure is based on a review of the NMOCD's Environmental and Administrative Records Database, historical aerial imagery, and recent confirmation soil sampling which demonstrated that remedial efforts took place and appear to have been successful. As described later in this report, work performed by Environmental Plus, Inc. (a third-party consulting firm that is no longer in business) at the time of the release appears to have been successful in remediating the site. However, since some time has elapsed since the job was completed and some final paperwork confirming NMOCD's closure of this site was unavailable, Sport Environmental performed additional soil sampling and review activities that indicated that the release had been successfully remediated. For this reason, a request for closure is being made to clearly document that the release has been addressed and that no further work is required.

The Initial C-141 Form associated with this release indicated that the release occurred on August 23, 2016 when a leak in a fiberglass flow line developed releasing approximately 117.42 bbls of produced water. Records from the time of the release indicated that a rapid response to the leak began upon discovery with a vacuum truck used to recover 60 bbls of freestanding produced water. In addition, records from this period indicate that contaminated soil from the release site was excavated and hauled to an NMOCD approved disposal facility. In addition to the immediate remedial efforts, aerial imagery and additional confirmation soil sampling indicated that soil in the area had been excavated and replaced with fresh backfill. The full soil

sampling results are available herein and demonstrate compliance with applicable regulatory limits. An updated Final Form C-141 containing the Closure Request related to this release is available in **Attachment A**.

Site Assessment, Characterization, and Groundwater Depth Determination

As part of efforts to assess and characterize the subject site, aerial imagery was evaluated for the presence of major watercourses within a 0.5-mile radius of the release site. Aerial imagery demonstrating the absence of such watercourses within a 0.5-mile radius of the release site can be found within **Attachment B.**

A groundwater depth evaluation was performed as well. The relevant New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) databases and GIS query tools were reviewed for groundwater depth information. A 0.5-mile bounding box was utilized when searching the USGS National Water Information System; however, no results appeared within this radius. The radius was expanded to 1.0-mile for this query and also yielded no results. Next, a similar query was performed using the NMOSE Water Rights Reporting System, and at the one-mile radius no results were available. Due to the lack of available groundwater data, the query radius was expanded again to 2.0-miles. This expanded search radius revealed 7 wells drilled between 1969 and 2015 with depths ranging between 70 feet and 165 feet. Based on this data and prior notes from NMOCD that are associated with the subject site, the shallowest depth to water of approximately 70 feet is being utilized to determine the proper clean-up criteria. Please see **Figure 1 through Figure 3** on the following pages for the results of the USGS and NMOSE queries which have established the shallowest groundwater depth to be approximately 70 feet below ground surface ('bgs). Based on this data, the appropriate remediation standard specified in the NMOCD Table 1 (NMAC 19.15.29.11) will be applied. All groundwater data is available in **Attachment C.**

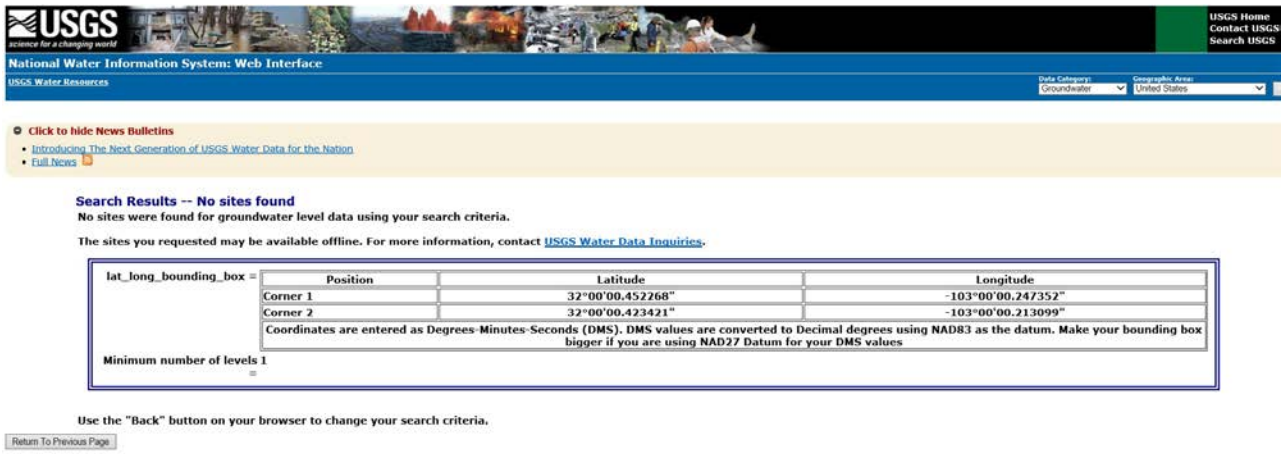


Figure 1. *USGS National Water Information System – No results within 0.5-mile of subject site*

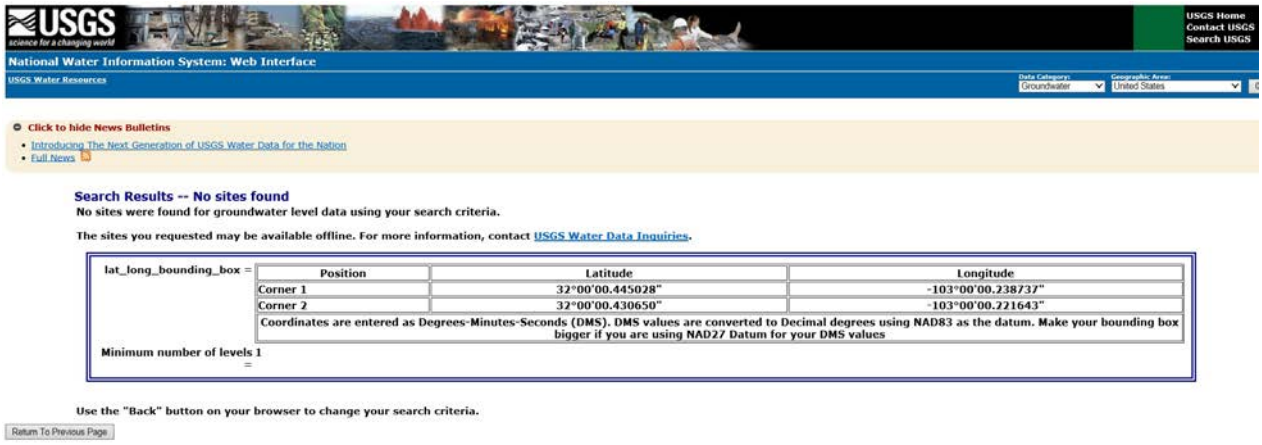


Figure 2. *USGS National Water Information System – No results within 1.0-mile of subject site*

New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
CP 00760 POD1	CP	LE	Artesian	1	4	4	35	21S	36E	666347	3589567*	785	07/02/1991	08/13/1994	08/16/1994	5000		WILSON S. MCCLURY	1612
CP 00761 POD1	CP	LE	Artesian	4	3	1	01	22S	36E	666964	3588569*	1875	09/22/1991	01/07/1992	08/16/1994	5000		WILSON S. MCCLURY	1612
CP 00484	CP	LE	Shallow		2	4	25	21S	36E	668021	3591508*	2005	07/16/1970	07/20/1970	07/28/1970	207	148	ABBOTT, MURRELL	46
CP 01448 POD1	CP	LE		4	4	4	36	21S	36E	668136	3589337	2026	01/05/2015	01/05/2015	01/28/2015	40		WHITE, JOHN W	1456
CP 00763	CP	LE	Shallow	2	2	3	01	22S	36E	667372	3588374*	2212	10/07/1991	10/11/1991	11/25/1991	265	137	SCARBOROUGH, LANE (LD)	1188
CP 00472 POD7	CP	LE	Shallow	1	4	4	23	21S	36E	666293	3592787*	2436	04/23/1969	04/27/1969	11/13/1970	205	165	FRANK GLASSPOOLE	447
L 09966	L	LE	Shallow	1	2	2	02	17S	37E	667627	3588089	2582	11/25/1987	11/25/1987	12/09/1987	150	70	GLENN, CLARK A."CORKY" (LD)	421

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 666381.92 **Northing (Y):** 3590352 **Radius:** 3218

***UTM location was derived from PLSS - see Help**

***Figure 3**. NMOSE Query Results (shallowest groundwater at approximately 70'bgs based on this query)*

Given the shallowest groundwater depth of approximately 70'bgs, the appropriate closure criteria for impacted soils at the subject site would appear to be as follows:

Table 1: Site Closure Criteria (Adapted from NMOCD Table 1(NMAC 19.15.29.11))

Closure Criteria for Soils Impacted by a Release: Minimum depth below any point within the horizontal boundary of the release to groundwater is between 51 and 100 feet	
Constituent	***Limit (mg/Kg)***
Chloride	10,000
TPH (Total Petroleum Hydrocarbons) (GRO+DRO+MRO)	2,500
TPH (Total Petroleum Hydrocarbons) (GRO+DRO)	1,000
BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)	50
Benzene	10

A Remediation Progress and Closure Proposal Report was prepared and submitted to NMOCD by Environmental Plus, Inc. (EPI), an environmental consulting firm which is no longer in operation, in October of 2016 (please see **Supplemental Attachment A** for a copy of EPI's report). Based on the NMOCD's Administrative and Environmental Imaging Database, EPI's remediation plan and closure request was approved pending completion of the work that EPI had outlined in the document.

As part of XTO's efforts to ensure a full and complete record of closure for this release, Sport Environmental was engaged to review the subject site's history, perform confirmation soil sampling, and prepare a report that clearly demonstrated that the release at the Arrowhead Grayburg Unit #135 had been remediated in accordance with NMOCD's remediation standards. For this reason, confirmation soil samples were collected from within the footprint of the release as determined by a review of aerial imagery and prior documentation available in EPI's Remediation Progress and Closure Proposal Report. The release footprint is displayed on the Release Site Plan denoting sample location placement as shown in **Attachment D.**

Soil Sampling Protocol and Scope

On November 2, 2018, discrete depth samples were collected utilizing a truck-mounted Geoprobe 540UD direct push unit at the release source point (SB-1 aka EPI's SP-1). Soil samples were collected at 0-6 inches below ground surface ('bgs) and at 1.5' bgs, which was the deepest point of auger refusal. Soil at the location appeared to be backfill and was homogenous in appearance and texture. The sample location associated with this confirmation soil sampling was selected to be representative of the release source and affected area. The homogenous reddish soil and did not show visual or olfactory evidence of impact. Soil lithology data *(i.e.*, boring log) was generated for the soil borehole location with the greatest depth (i.e., 1.5'bgs at SB1) and prepared for inclusion in this report to show conditions at the site. The boring log is available in **Attachment E**.

All samples were collected and preserved in accordance with proper sampling protocols to ensure representative characterization of soils submitted to Eurofins TestAmerica, a NELAP certified laboratory, under proper chain-of-custody for analysis. Each constituent was analyzed using appropriate analytical methods. Chlorides were analyzed using EPA Method 300, Total Petroleum Hydrocarbons (TPH) using Method 8015B, and BTEX constituents on the using Method 8260.

Soil Sampling Results

Laboratory analytical results confirmed that impacts from the release had been addressed in the past and that the subject site is clean. A summary of results is available in the table below and full analytical results, inclusive of the chain-of-custody, are provided in **Attachment F.**

Table 2. Soil Sampling Results (November 2, 2018 Confirmation Sampling)

	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Gasoline Range Organics (C6 - C10)	EMRO (C28-C35)	Diesel Range Organics (C10-C28)	Chloride
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Closure Criteria for Soils Impacted by a Release where the Depth to Groundwater is Between 51 and 100'bgs	10	Total BTEX Limit is 50 mg/Kg			Total TPH Limit is 2,500 mg/Kg GRO+DRO limit is 1,000 mg/Kg			10,000
490-162712-1 AGU 135 - S001 @ 0-6' bgs 11/2/2018 4:13 PM	ND	ND	ND	ND	ND	ND	ND	ND
490-162712-2 AGU 135 - S001 @ 1.5' bgs 11/2/2018 4:13 PM	ND	ND	ND	ND	ND	3.68	ND	97.5

The confirmation soil sampling showed that the soil at the subject site had been replaced with fresh soil. Small plants were growing along the perimeter of the release footprint. A review of aerial imagery depicting the subject site just prior to the release date to the most recent available images reveals that remediation of the release took place.

Geo-tagged Site Photographs

Photographs showing the release location and soil sampling activities are provided in the photographic log below. All geotagged photographs contain the geographic coordinates, date, time, and other data associated with their capture.

Photographic Log: November 2, 2018

Photograph	Description
	The Geoprobe 540UD direct push sampling unit is visible in the foreground and the remediated release location can be seen in the background. Special care was taken in avoiding flowlines as well as sub-surface piping. A hydro-vac' truck was used to clear the area around the sample location and ensure that the truck-mounted Geoprobe could be safely utilized for discrete depth sampling.
	Soil boring 1 (SB1) sample location is pictured here. No visual or olfactory indications of contamination were present.

Request for Release Closure - Confirmation Sampling Demonstrates Subject Site is Remediated

Based on the analytical data provided herein, the concentrations of all constituents (i.e., Chlorides, TPH, Benzene, Toluene, Ethylbenzene, and Xylenes) at the subject site were well below their respective limits. In addition, based on a review of aerial imagery and this confirmation sampling, it would appear that work was performed by the client in the past and that the remedial tasks were successful in restoring the subject site to its pre-release conditions. Vegetation is currently being reestablished and the topography of the location is similar to its surroundings.

Sport Environmental, on behalf of XTO Energy respectfully requests closure status be granted for the Arrowhead Grayburg Unit #135 release site which was assigned the 1R-4414 identifier. If NMOCD have any further questions or comments regarding this request for closure, please contact us at (432) 683-1100.

Sincerely,

Deborah S. Moore

Deborah S. Moore, ME, REPA, CESCO, RSO
President
Sport Environmental Services, LLC

cc: Mr. Shelby Pennington (XTO Energy, Inc.)

List of Attachments:

A	*NMOCD Form C-141 (Closure)*
B	*0.5-Mile Radius Map denoting Absence of Major Watercourses*
C	*Groundwater Depth Data*
D	*Release Site Plan denoting Sample Locations*
E	*Boring Log*
F	*Full Analytical Reports and Chain-of-Custody*

Supplemental Attachment A - EPI's C-141 and Remediation Progress Report and Closure Proposal dated October 7, 2016

Attachment A

NMOCD Form C-141 (Closure)

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy, Inc.	OGRID 5380
Contact Name Mr. Shelby Pennington, Environmental Supervisor	Contact Telephone (281) 723-9353
Contact email shelby_pennington@xtoenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 6401 Holiday Hill Road, Midland, TX 79707	

Location of Release Source

Latitude 32.43793° Longitude -103.23019°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Arrowhead Grayburg Unit #135	Site Type Flowline
Date Release Discovered 08/23/2016	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	35	21S	36E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 117.42	Volume Recovered (bbls) 60
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No Unknown due to the time that has passed since release discovery.
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Fiberglass flow line leak.		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbl of fluids were released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? This notification information was likely supplied by XTO at the time of the event. However, several years have passed since the release occurred and this data is not currently available.	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Shelby Pennington Title: Environmental Coordinator

Signature: Shelby Pennington Date: 11/1/19

email: shelby_pennington@xtoenergy.com Telephone: (281) 723-9353

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	70 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Shelby Pennington_____ Title: Environmental Coordinator_____

Signature: Shelby Pennington_____ Date: 11/1/19_____

email: shelby_pennington@xtoenergy.com_____ Telephone: (281) 723-9353_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Shelby Pennington Title: Environmental Coordinator

Signature: Shelby Pennington Date: 11/1/19

email: shelby_pennington@xtoenergy.com Telephone: (281) 723-9353

OCD Only

Received by: Date:

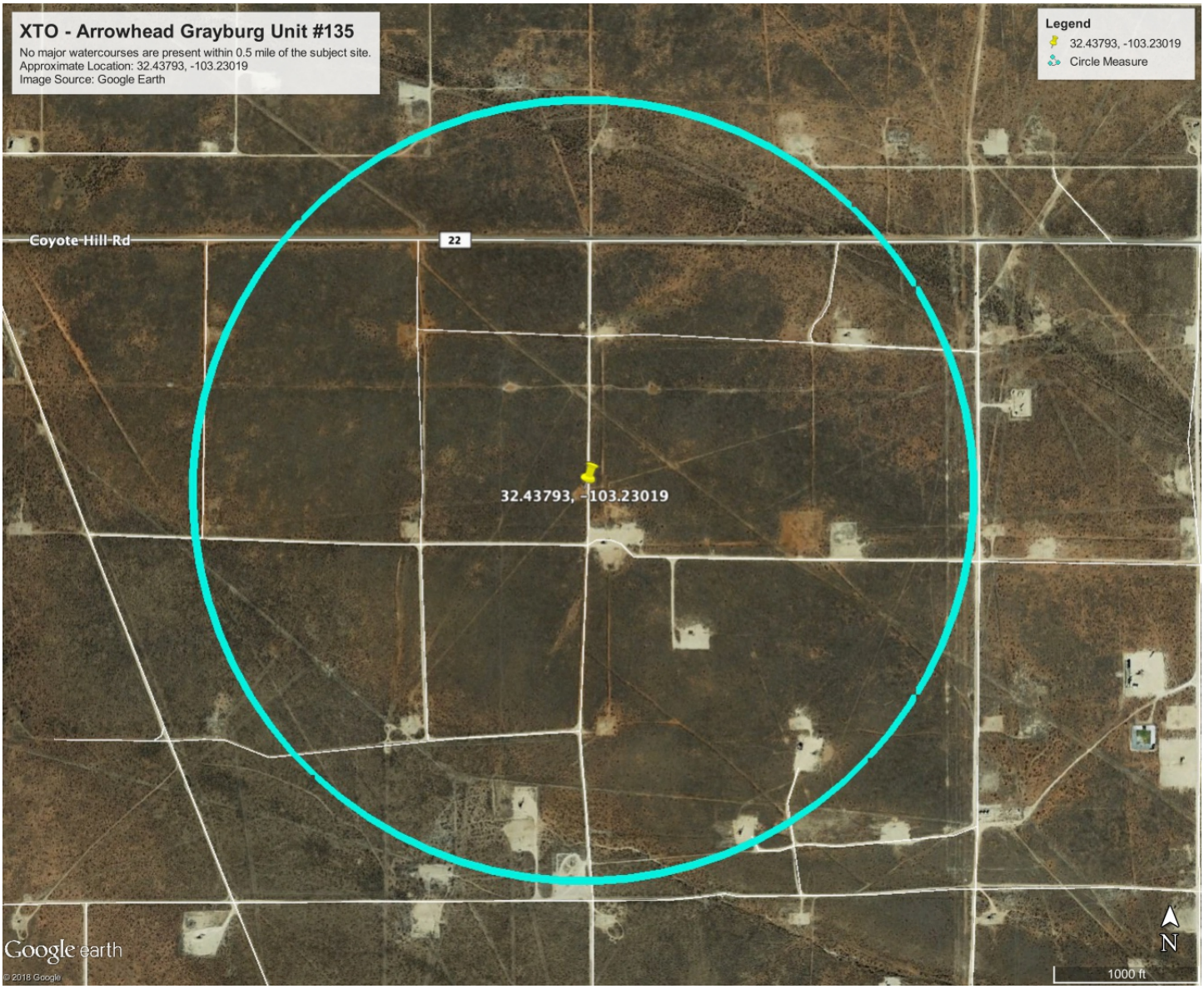
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Brittany Hall Date: 3/10/2023

Printed Name: Brittany Hall Title: Environmental Specialist

Attachment B

0.5-Mile Radius Map denoting Absence of Major Watercourses


XTO - Arrowhead Grayburg Unit #135
No major watercourses are present within 0.5 mile of the subject site.
Approximate Location: 32.43793, -103.23019
Image Source: Google Earth
Legend
32.43793, -103.23019
Circle Measure
Coyote Hill Rd
22
32.43793, -103.23019
Google earth
© 2018 Google
N
1000 ft

Attachment C

Groundwater Depth Data

Arrowhead Grayburg Unit #135
1R-4414

Water Well ID	Lat	Long	Distance from Release (miles)	Drilled Date	DTW (ft)
CP 00760 POD 1	32.430810	-103.230679	0.49	8/13/94	--
CP 00761 POD 1	32.421719	-103.224296	1.17	1/7/92	--
CP 00763	32.419899	-103.219993	1.37	10/11/91	137
CP 01448 POD 1	32.428473	-103.211694	1.26	1/5/15	--
L 09966	32.417292	-103.217330	1.6	11/25/87	70
CP 00484	32.448060	-103.212536	1.25	7/20/70	148
CP 00472 POD 7	32.459852	-103.230686	1.51	4/27/69	165

* Query date - 10/17/2018

New Mexico Office of the State Engineer
Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
CP 00760 POD1	CP	LE	Artesian	1	4	4	35	21S	36E	666347	3589567*	785	07/02/1991	08/13/1994	08/16/1994	5000		WILSON S. MCCLURY	1612
CP 00761 POD1	CP	LE	Artesian	4	3	1	01	22S	36E	666964	3588569*	1875	09/22/1991	01/07/1992	08/16/1994	5000		WILSON S. MCCLURY	1612
CP 00484	CP	LE	Shallow		2	4	25	21S	36E	668021	3591508*	2005	07/16/1970	07/20/1970	07/28/1970	207	148	ABBOTT, MURRELL	46
CP 01448 POD1	CP	LE		4	4	4	36	21S	36E	668136	3589337	2026	01/05/2015	01/05/2015	01/28/2015	40		WHITE, JOHN W	1456
CP 00763	CP	LE	Shallow	2	2	3	01	22S	36E	667372	3588374*	2212	10/07/1991	10/11/1991	11/25/1991	265	137	SCARBOROUGH, LANE (LD)	1188
CP 00472 POD7	CP	LE	Shallow	1	4	4	23	21S	36E	666293	3592787*	2436	04/23/1969	04/27/1969	11/13/1970	205	165	FRANK GLASSPOOLE	447
L 09966	L	LE	Shallow	1	2	2	02	17S	37E	667627	3588089	2582	11/25/1987	11/25/1987	12/09/1987	150	70	GLENN, CLARK A."CORKY" (LD)	421

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 666381.92 **Northing (Y):** 3590352 **Radius:** 3218

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00472 POD7	1	4	4	23	21S	36E	666293	3592787*

Driller License:	447	**Driller Company:**	GLASSPOOLE, FRANK A.		
Driller Name:	FRANK GLASSPOOLE				
Drill Start Date:	04/23/1969	**Drill Finish Date:**	04/27/1969	**Plug Date:**	
Log File Date:	11/13/1970	**PCW Rcv Date:**	01/08/1971	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	2	**Estimated Yield:**	100 GPM
Casing Size:	8.75	**Depth Well:**	205 feet	**Depth Water:**	165 feet

Water Bearing Stratifications:	Top	Bottom	Description
	165	205	Other/Unknown

Casing Perforations:	Top	Bottom
	165	205

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00484	2	4		25	21S	36E	668021	3591508*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT, MURRELL				
Drill Start Date:	07/16/1970	**Drill Finish Date:**	07/20/1970	**Plug Date:**	
Log File Date:	07/28/1970	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	207 feet	**Depth Water:**	148 feet

Water Bearing Stratifications:	Top	Bottom	Description
	124	200	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	112	207

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twp	Rng	(NAD83 UTM in meters) X	Y
	CP 00760 POD1	1	4	4	35	21S	36E	666347	3589567*

Driller License:	1612	**Driller Company:**	CAPSTAR DRILLING, L.P.		
Driller Name:	WILSON S. MCCLURY				
Drill Start Date:	07/02/1991	**Drill Finish Date:**	08/13/1994	**Plug Date:**	
Log File Date:	08/16/1994	**PCW Rcv Date:**	08/16/1994	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	4	**Estimated Yield:**	
Casing Size:	8.63	**Depth Well:**	5000 feet	**Depth Water:**	

Meter Number:	8706	**Meter Make:**	HALLIBURTON
Meter Serial Number:	4SBF2539	**Meter Multiplier:**	1.0000
Number of Dials:	9	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
01/01/2005	2005	66550318	A	jw		0
03/25/2005	2005	67127663	A	jw		74.416
11/04/2005	2005	67708246	A	jw		74.833
12/31/2005	2005	67855282	A	RPT		18.952
03/31/2006	2006	67981266	A	RPT		16.238
06/30/2006	2006	68049565	A	RPT		8.803
10/31/2006	2006	68073277	A	RPT		3.056
12/31/2006	2006	68130386	A	RPT		7.361
03/31/2014	2014	73936876	A	RPT	First entry since 12/31/2006	748.417
06/30/2014	2014	74042442	A	RPT		13.607
09/30/2014	2014	74093937	A	RPT		6.637
12/31/2014	2014	74158593	A	RPT		8.334
03/31/2015	2015	74307081	A	RPT		19.139
06/30/2015	2015	74416194	A	RPT		14.064
09/30/2015	2015	75640108	A	RPT		157.754

**YTD Meter Amounts:	Year	Amount
	2005	168.201
	2006	35.458
	2014	776.995

***UTM location was derived from PLSS - see Help**

**YTD Meter Amounts:	Year	Amount
	2015	190.957

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00761 POD1	4	3	1	01	22S	36E	666964	3588569*

Driller License: 1612 **Driller Company:** CAPSTAR DRILLING, L.P.
Driller Name: WILSON S. MCCLURY

Drill Start Date:	09/22/1991	**Drill Finish Date:**	01/07/1992	**Plug Date:**	
Log File Date:	08/16/1994	**PCW Rcv Date:**	08/16/1994	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	4	**Estimated Yield:**	
Casing Size:	8.63	**Depth Well:**	5000 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	4080	5000	Limestone/Dolomite/Chalk

Meter Number:	10252	**Meter Make:**	HALLIBURTON
Meter Serial Number:	4SBF2540	**Meter Multiplier:**	1.0000
Number of Dials:	9	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
12/31/2005	2005	0	A	RPT		0
03/31/2006	2006	0	A	RPT		0
06/30/2006	2006	0	A	RPT		0
10/30/2006	2006	0	A	RPT		0
12/31/2006	2006	0	A	RPT		0
03/31/2014	2014	0	A	RPT		0
06/30/2014	2014	0	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2005	0
	2006	0
	2014	0

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00763	2	2	3	01	22S	36E	667372	3588374*

Driller License:	1188	**Driller Company:**	SCARBOROUGH DRILLING INC.		
Driller Name:	SCARBOROUGH, LANE (LD)				
Drill Start Date:	10/07/1991	**Drill Finish Date:**	10/11/1991	**Plug Date:**	
Log File Date:	11/25/1991	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	6.00	**Depth Well:**	265 feet	**Depth Water:**	137 feet

Water Bearing Stratifications:	Top	Bottom	Description
	126	150	Sandstone/Gravel/Conglomerate
	190	260	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	185	265

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01448 POD1	4	4	4	36	21S	36E	668136	3589337

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	01/05/2015	**Drill Finish Date:**	01/05/2015	**Plug Date:**	01/05/2015
Log File Date:	01/28/2015	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	40 feet	**Depth Water:**	

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 09966	1	2	2	02	17S	37E	667627	3588089

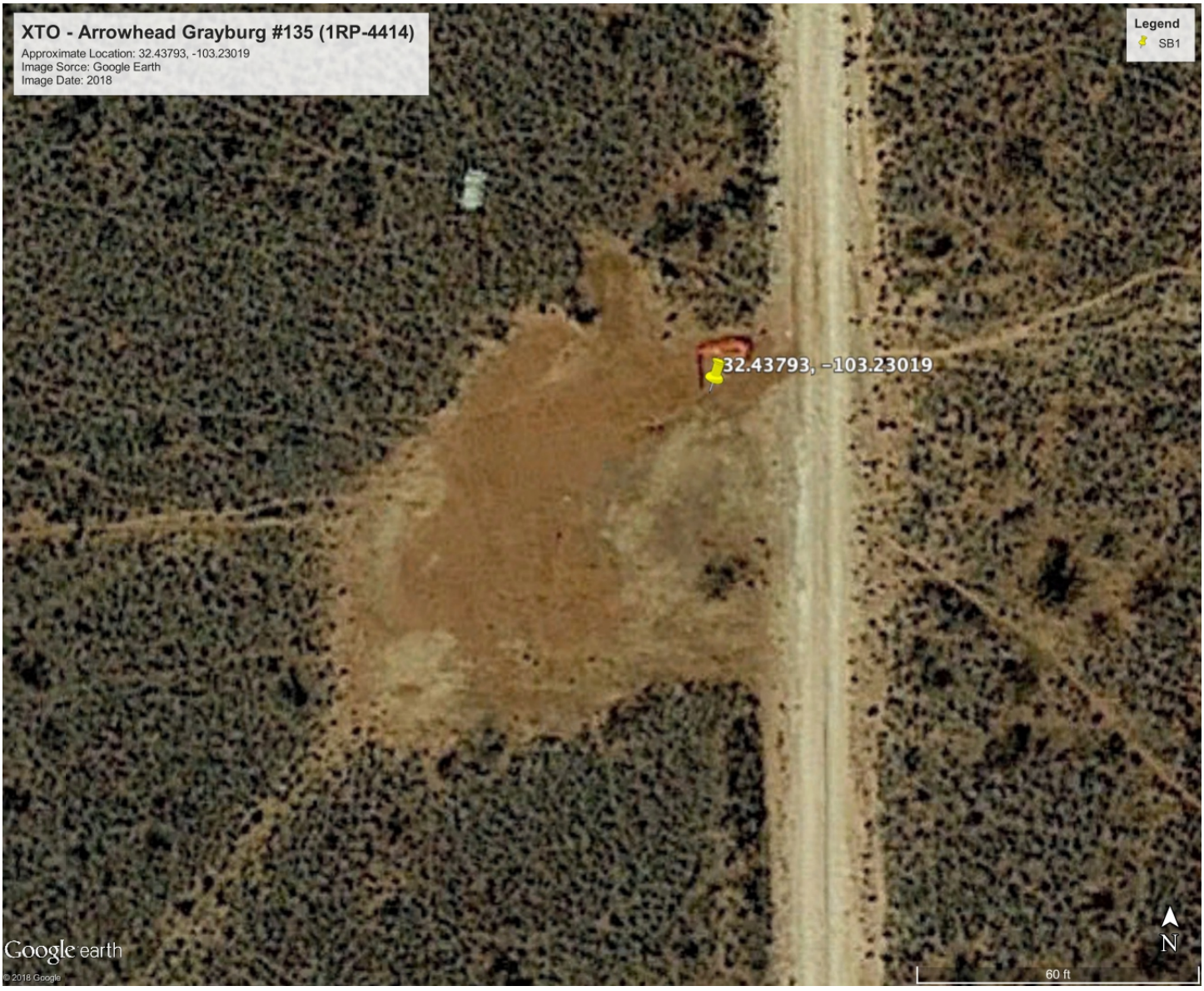
Driller License:	421	**Driller Company:**	GLENN'S WATER WELL SERVICE		
Driller Name:	GLENN, CLARK A."CORKY" (LD)				
Drill Start Date:	11/25/1987	**Drill Finish Date:**	11/25/1987	**Plug Date:**	
Log File Date:	12/09/1987	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	100 GPM
Casing Size:	6.63	**Depth Well:**	150 feet	**Depth Water:**	70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	150	Other/Unknown

Casing Perforations:	Top	Bottom
	80	150

Attachment D

Release Site Plan denoting Sample Locations


XTO - Arrowhead Grayburg #135 (1RP-4414)
Approximate Location: 32.43793, -103.23019
Image Sorce: Google Earth
Image Date: 2018
Legend
SB1
32.43793, -103.23019
Google earth
© 2018 Google
N
60 ft

Attachment E

Boring Log

Boring Log / Field Notes
Arrowhead Grayburg Unit
November 2, 2018

0-1.5 feet below ground surface: Soil is a reddish-brown (5YR 4/4) poorly-graded fine sand. The soil appears to be homogenous backfill soil with no olfactory or visual indication of contamination. Soil is dry transitioning to slightly moist.

Geoprobe 540UD with direct push technology was utilized to sample the site. Auger refusal at 1.5 feet below ground surface. A second borehole was attempted, but auger refusal was encountered at just 1.0 feet below ground surface.

Attachment F

Full Analytical Reports and Chain-of-Custody Forms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-162712-1
TestAmerica SDG: XTO Historical Release Characterization
Client Project/Site: Arrowhead Grayburg Unit #135

For:
Sport Environmental Services LLC
502 N Big Spring St
Midland, Texas 79701

Attn: Debi Sport Moore

Jennifer Gambill

Authorized for release by:
11/9/2018 11:04:35 AM

Jennifer Gambill, Project Manager I
(615)301-5044
jennifer.gambill@testamericainc.com

Table of Contents

Sample Summary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Solid	11/02/18 16:13	11/07/18 09:55
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Solid	11/02/18 16:13	11/07/18 09:55

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Job ID: 490-162712-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-162712-1

Comments
No additional comments.

Receipt
The samples were received on 11/7/2018 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Definitions/Glossary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Client Sample ID: AGU 135 - S001 @ 0-6' bgs

Date Collected: 11/02/18 16:13
Date Received: 11/07/18 09:55

Lab Sample ID: 490-162712-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199	0.000667	mg/Kg		11/07/18 11:54	11/08/18 02:03	1
Ethylbenzene	ND		0.00199	0.000667	mg/Kg		11/07/18 11:54	11/08/18 02:03	1
Toluene	ND		0.00199	0.000737	mg/Kg		11/07/18 11:54	11/08/18 02:03	1
Xylenes, Total	ND		0.00598	0.00123	mg/Kg		11/07/18 11:54	11/08/18 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:03*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:03*	*1*
Dibromofluoromethane (Surr)	*123*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:03*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.90	2.45	mg/Kg		11/07/18 11:44	11/08/18 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*	*11/07/18 11:44*	*11/08/18 12:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	2.46	mg/Kg		11/07/18 10:51	11/07/18 18:44	1
MRO (C28-C35)	ND		4.93	2.46	mg/Kg		11/07/18 10:51	11/07/18 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*50 - 150*	*11/07/18 10:51*	*11/07/18 18:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.09	mg/Kg			11/08/18 20:48	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Client Sample ID: AGU 135 - S001 @ 1.5' bgs

Date Collected: 11/02/18 16:13
Date Received: 11/07/18 09:55

Lab Sample ID: 490-162712-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00181	0.000608	mg/Kg		11/07/18 11:54	11/08/18 02:31	1
Ethylbenzene	ND		0.00181	0.000608	mg/Kg		11/07/18 11:54	11/08/18 02:31	1
Toluene	ND		0.00181	0.000672	mg/Kg		11/07/18 11:54	11/08/18 02:31	1
Xylenes, Total	ND		0.00544	0.00112	mg/Kg		11/07/18 11:54	11/08/18 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:31*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:31*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:31*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*11/07/18 11:54*	*11/08/18 02:31*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.93	2.47	mg/Kg		11/07/18 11:44	11/08/18 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*	*11/07/18 11:44*	*11/08/18 13:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	2.48	mg/Kg		11/07/18 10:51	11/07/18 19:01	1
MRO (C28-C35)	**3.68**	**J**	4.95	2.48	mg/Kg		11/07/18 10:51	11/07/18 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*67*		*50 - 150*	*11/07/18 10:51*	*11/07/18 19:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.5**		10.1	7.05	mg/Kg			11/08/18 21:23	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 490-162714-B-9-D MS
Matrix: Solid
Analysis Batch: 555742

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0447	0.04123		mg/Kg		92	21 - 150
Ethylbenzene	ND		0.0447	0.03513		mg/Kg		79	10 - 150
Toluene	ND		0.0447	0.03740		mg/Kg		84	17 - 150
Xylenes, Total	ND		0.0894	0.07369		mg/Kg		82	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 490-162714-B-9-E MSD
Matrix: Solid
Analysis Batch: 555742

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 555601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0489	0.04813		mg/Kg		98	21 - 150	15	50
Ethylbenzene	ND		0.0489	0.04395		mg/Kg		90	10 - 150	22	50
Toluene	ND		0.0489	0.04555		mg/Kg		93	17 - 150	20	50
Xylenes, Total	ND		0.0978	0.09141		mg/Kg		93	10 - 150	21	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 490-555742/7
Matrix: Solid
Analysis Batch: 555742

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			11/08/18 01:33	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/08/18 01:33	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/08/18 01:33	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			11/08/18 01:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*11/08/18 01:33*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/08/18 01:33*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*11/08/18 01:33*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/08/18 01:33*	*1*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-555742/4
Matrix: Solid
Analysis Batch: 555742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04740		mg/Kg		95	70 - 130
Ethylbenzene	0.0500	0.04180		mg/Kg		84	70 - 130
Toluene	0.0500	0.04340		mg/Kg		87	70 - 130
Xylenes, Total	0.100	0.08695		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-555742/25
Matrix: Solid
Analysis Batch: 555742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05224		mg/Kg		104	70 - 130	10	37
Ethylbenzene	0.0500	0.04600		mg/Kg		92	70 - 130	10	38
Toluene	0.0500	0.04788		mg/Kg		96	70 - 130	10	40
Xylenes, Total	0.100	0.09625		mg/Kg		96	70 - 130	10	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 490-555592/1-A
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.00	2.50	mg/Kg		11/07/18 11:44	11/08/18 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*	*11/07/18 11:44*	*11/08/18 11:55*	*1*

Lab Sample ID: LCS 490-555592/2-A
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	50.0	52.35		mg/Kg		105	70 - 130

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 490-555592/2-A
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555592

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	78		50 - 150

Lab Sample ID: LCSD 490-555592/3-A
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 555592

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			50.0	54.05		mg/Kg		108	70 - 130	3	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	78		50 - 150

Lab Sample ID: 490-162713-A-5-A MS
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	ND		48.7	43.74		mg/Kg		90	56 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene	78		50 - 150

Lab Sample ID: 490-162713-A-5-A MSD
Matrix: Solid
Analysis Batch: 555799

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 555592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		48.7	37.96		mg/Kg		78	56 - 130	14	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	80		50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 490-555145/1-A
Matrix: Solid
Analysis Batch: 555227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.00	2.50	mg/Kg		11/06/18 09:17	11/06/18 13:59	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		11/06/18 09:17	11/06/18 13:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150	11/06/18 09:17	11/06/18 13:59	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 490-555145/2-A
Matrix: Solid
Analysis Batch: 555227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			40.0	36.22		mg/Kg		91	54 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*80*		*50 - 150*

Lab Sample ID: LCSD 490-555145/14-A
Matrix: Solid
Analysis Batch: 555740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 555145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			40.0	39.44		mg/Kg		99	54 - 130	9	47

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*78*		*50 - 150*

Lab Sample ID: 490-162556-H-10-B MS
Matrix: Solid
Analysis Batch: 555227

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	7.68		39.5	32.94		mg/Kg		64	10 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*63*		*50 - 150*

Lab Sample ID: 490-162556-H-10-C MSD
Matrix: Solid
Analysis Batch: 555227

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 555145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	7.68		39.1	35.65		mg/Kg		71	10 - 142	8	47

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*63*		*50 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-555803/1-A
Matrix: Solid
Analysis Batch: 556035

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			11/08/18 20:13	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-555803/2-A
Matrix: Solid
Analysis Batch: 556035

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.09		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 490-555803/3-A
Matrix: Solid
Analysis Batch: 556035

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	98.99		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 490-162712-1 MS
Matrix: Solid
Analysis Batch: 556035

Client Sample ID: AGU 135 - S001 @ 0-6' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		101	101.0		mg/Kg		100	80 - 120

Lab Sample ID: 490-162712-1 MSD
Matrix: Solid
Analysis Batch: 556035

Client Sample ID: AGU 135 - S001 @ 0-6' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		101	101.2		mg/Kg		100	80 - 120	0	20

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

GC/MS VOA

Prep Batch: 555601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	5030B	
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	5030B	
490-162714-B-9-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-162714-B-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 555742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	8260B	555601
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	8260B	555601
MB 490-555742/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-555742/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-555742/25	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-162714-B-9-D MS	Matrix Spike	Total/NA	Solid	8260B	555601
490-162714-B-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	555601

GC VOA

Prep Batch: 555592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	5030B	
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	5030B	
MB 490-555592/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 490-555592/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 490-555592/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
490-162713-A-5-A MS	Matrix Spike	Total/NA	Solid	5030B	
490-162713-A-5-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 555799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	8015B	555592
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	8015B	555592
MB 490-555592/1-A	Method Blank	Total/NA	Solid	8015B	555592
LCS 490-555592/2-A	Lab Control Sample	Total/NA	Solid	8015B	555592
LCSD 490-555592/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	555592
490-162713-A-5-A MS	Matrix Spike	Total/NA	Solid	8015B	555592
490-162713-A-5-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	555592

GC Semi VOA

Prep Batch: 555145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	3550C	
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	3550C	
MB 490-555145/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-555145/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-555145/14-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
490-162556-H-10-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-162556-H-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

GC Semi VOA (Continued)

Analysis Batch: 555227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-555145/1-A	Method Blank	Total/NA	Solid	8015B	555145
LCS 490-555145/2-A	Lab Control Sample	Total/NA	Solid	8015B	555145
490-162556-H-10-B MS	Matrix Spike	Total/NA	Solid	8015B	555145
490-162556-H-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	555145

Analysis Batch: 555740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Total/NA	Solid	8015B	555145
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Total/NA	Solid	8015B	555145
LCSD 490-555145/14-A	Lab Control Sample Dup	Total/NA	Solid	8015B	555145

HPLC/IC

Leach Batch: 555803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	DI Leach	
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Soluble	Solid	DI Leach	
MB 490-555803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-555803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-555803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-162712-1 MS	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	DI Leach	
490-162712-1 MSD	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	DI Leach	

Analysis Batch: 556035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-162712-1	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	300.0	555803
490-162712-2	AGU 135 - S001 @ 1.5' bgs	Soluble	Solid	300.0	555803
MB 490-555803/1-A	Method Blank	Soluble	Solid	300.0	555803
LCS 490-555803/2-A	Lab Control Sample	Soluble	Solid	300.0	555803
LCSD 490-555803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	555803
490-162712-1 MS	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	300.0	555803
490-162712-1 MSD	AGU 135 - S001 @ 0-6' bgs	Soluble	Solid	300.0	555803

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Client Sample ID: AGU 135 - S001 @ 0-6' bgs

Lab Sample ID: 490-162712-1
Date Collected: 11/02/18 16:13
Matrix: Solid
Date Received: 11/07/18 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5.0 mL	555601	11/07/18 11:54	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	555742	11/08/18 02:03	PN	TAL NSH
Total/NA	Prep	5030B			5.10 g	5.0 mL	555592	11/07/18 11:44	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	555799	11/08/18 12:30	S1S	TAL NSH
Total/NA	Prep	3550C			25.38 g	1.00 mL	555145	11/07/18 10:51	MBV	TAL NSH
Total/NA	Analysis	8015B		1			555740	11/07/18 18:44	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9640 g	30 mL	555803	11/08/18 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			556035	11/08/18 20:48	SOO	TAL NSH

Client Sample ID: AGU 135 - S001 @ 1.5' bgs

Lab Sample ID: 490-162712-2
Date Collected: 11/02/18 16:13
Matrix: Solid
Date Received: 11/07/18 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.51 g	5.0 mL	555601	11/07/18 11:54	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	555742	11/08/18 02:31	PN	TAL NSH
Total/NA	Prep	5030B			5.07 g	5.0 mL	555592	11/07/18 11:44	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	555799	11/08/18 13:05	S1S	TAL NSH
Total/NA	Prep	3550C			25.23 g	1.00 mL	555145	11/07/18 10:51	MBV	TAL NSH
Total/NA	Analysis	8015B		1			555740	11/07/18 19:01	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9791 g	30 mL	555803	11/08/18 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			556035	11/08/18 21:23	SOO	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015B	Gasoline Range Organics - (GC)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
3550C	Ultrasonic Extraction	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL NSH

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Sport Environmental Services LLC
Project/Site: Arrowhead Grayburg Unit #135

TestAmerica Job ID: 490-162712-1
SDG: XTO Historical Release Characterization

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-19
Arizona	State Program	9	AZ0473	05-05-19
Arkansas DEQ	State Program	6	88-0737	04-25-19
California	State Program	9	2938	10-31-18 *
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-19
Georgia	State Program	4	NA: NELAP & A2LA	12-31-19
Illinois	NELAP	5	200010	12-09-18
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-18 *
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-18
Louisiana	NELAP	6	30613	06-30-19
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-19
Massachusetts	State Program	1	M-TN032	06-30-19
Minnesota	NELAP	5	047-999-345	12-31-18
Mississippi	State Program	4	N/A	06-30-19
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-19
New Hampshire	NELAP	1	2963	10-09-18 *
New Jersey	NELAP	2	TN965	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-18
North Dakota	State Program	8	R-146	06-30-19
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-19
Oregon	NELAP	10	TN200001	04-26-19
Pennsylvania	NELAP	3	68-00585	07-31-19
Rhode Island	State Program	1	LAO00268	12-30-18
South Carolina	State Program	4	84009 (001)	02-28-19
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-19
Washington	State Program	10	C789	07-19-19
West Virginia DEP	State Program	3	219	02-28-19
Wisconsin	State Program	5	998020430	08-31-19
Wyoming (UST)	A2LA	8	453.07	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-162712 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 11/7/2018 @ 9:55

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1435 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ASH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ASH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ASH

I certify that I attached a label with the unique LIMS number to each container (intial) ASH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Debi S. Moore	Lab PM: Gambill, Jennifer	Carrier Tracking No(s):	COC No:
Client Contact: Debi Sport Moore	Phone: (432) 683-1100	E-Mail: jennifer.gambill@testamericainc.com		Page: Page 1 of 1
Company: Sport Environmental Services LLC				Job #:
Address: 502 N Big Spring St	Due Date Requested: Friday 11-9-18 COB			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-683-1100	PO #: Purchase Order not required			
Email: debi@sportenv.com	WO #:			
Project Name: XTO Historical Release Characterization	TestAmerica Project #: 49014499			
Site: Arrowhead Grayburg Unit #135	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL; B - NaOH; C - Zn Acetat; D - Nitric Acic; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic; I - Ice; J - DI Water; K - EDTA; L - EDA; Other:

Loc: 490
162712

Sample Identification	Sample Date	Sample Time (NM)	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFMS - Chloride	8015B_DRO - DRO/MRO	8015B_GRO	8260B BTEX	Total Number of containers	Special Instructions
			Preservation Code:				N	N	N	N		
AGU 135 - Soil @ 0-6" bgs	11-2-18	1613 hrs	G	Solid			X	X	X	X		
AGU 135 - Soil @ 1.5' bgs.	11-2-18	1613 hrs	G	Solid			X	X	X	X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Debi S. Moore	11-6-18 1557	Sport		11-6-18 1557	
2		11-6-18 1558			11/7/18 0955	TA-NAS
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.9

Ver: 08/04/2016

Supplemental Attachment A

EPI's C-141 and Remediation Progress Report and Closure Proposal Dated October 7, 2016

ENVIRONMENTAL PLUS, INC.
CONSULTING AND ENVIRONMENTAL REMEDIATION

7 October 2016

NMOCD
& Field Inspection Preformed

Backfill

Ms. Kristen Lynch
Environmental Specialist
NMOCD
1625 North French Drive
Hobbs, New Mexico 88240

RE: Remediation Progress Report and Closure Proposal
XTO Energy – AGU #135
UL-J, Section 35, Township 21 South, Range 36 East
Lea County, New Mexico
NMOCD Reference # 1RP-4414

Ms. Lynch:

The following *Remediation Progress Report and Closure Proposal* serves as a condensed update on remedial activities undertaken and closure proposal for the above referenced Site.

Remediation Progress:
EPI personnel mobilized on the site on August 30, 2016 to collect soil samples to determine the vertical extent of contamination. A total of thirteen (13) soil samples were collected from six (6) sample locations; SP1 – SP6. Ten (10) representative samples were jarred, chilled and sent to Cardinal Labs for testing. Laboratory analytical results indicate, with the exception of TPH at surface level at SP1, the release area to be void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (NMOCD RRALs) of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively (reference *Figure 3* and *Table 2*).

The entire release area has been excavated approximately six (6) inches bgs, the area around SP3 was excavated approximately eight (8) feet bgs to repair the damaged line, and the contaminated soil has been hauled to a state approved facility for disposal.

Closure Proposal:
Based on laboratory analytical results indicating the release area to be void of constituent contaminants in excess of NMOCD RRALs, EPI proposes to backfill the excavated area with clean soil. All soil will be free of rocks, clumps or deleterious material. Backfilling will continue until the entire excavation is closed. Upon completion of backfill activities, the entire disturbed area will be contoured to blend with existing lease road and pasture area and protected against wind/water erosion.

Following completion of closure activities, EPI will provide a detailed *Final Closure Report* to XTO and NMOCD personnel.

P.O. BOX 1558 ••• 2100 AVENUE O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 575•394•3481 FAX 575•394•2601

ENVIRONMENTAL PLUS, INC.

XTO Energy and EPI personnel would welcome an opportunity to briefly discuss the *Closure Proposal* at your earliest convenience. However, should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. John Robinson at (575) 441-5199 or via e-mail at john_robinson@xtoenergy.com. All official communication should be addressed to:

Mr. John Robinson
XTO Energy
P.O. Box 700
Eunice, New Mexico 88231

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant

cc: John Robinson – XTO Energy
File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – Laboratory Analytical Results
Attachment III – Copy of Initial NMOCD Form C-141

FIGURES

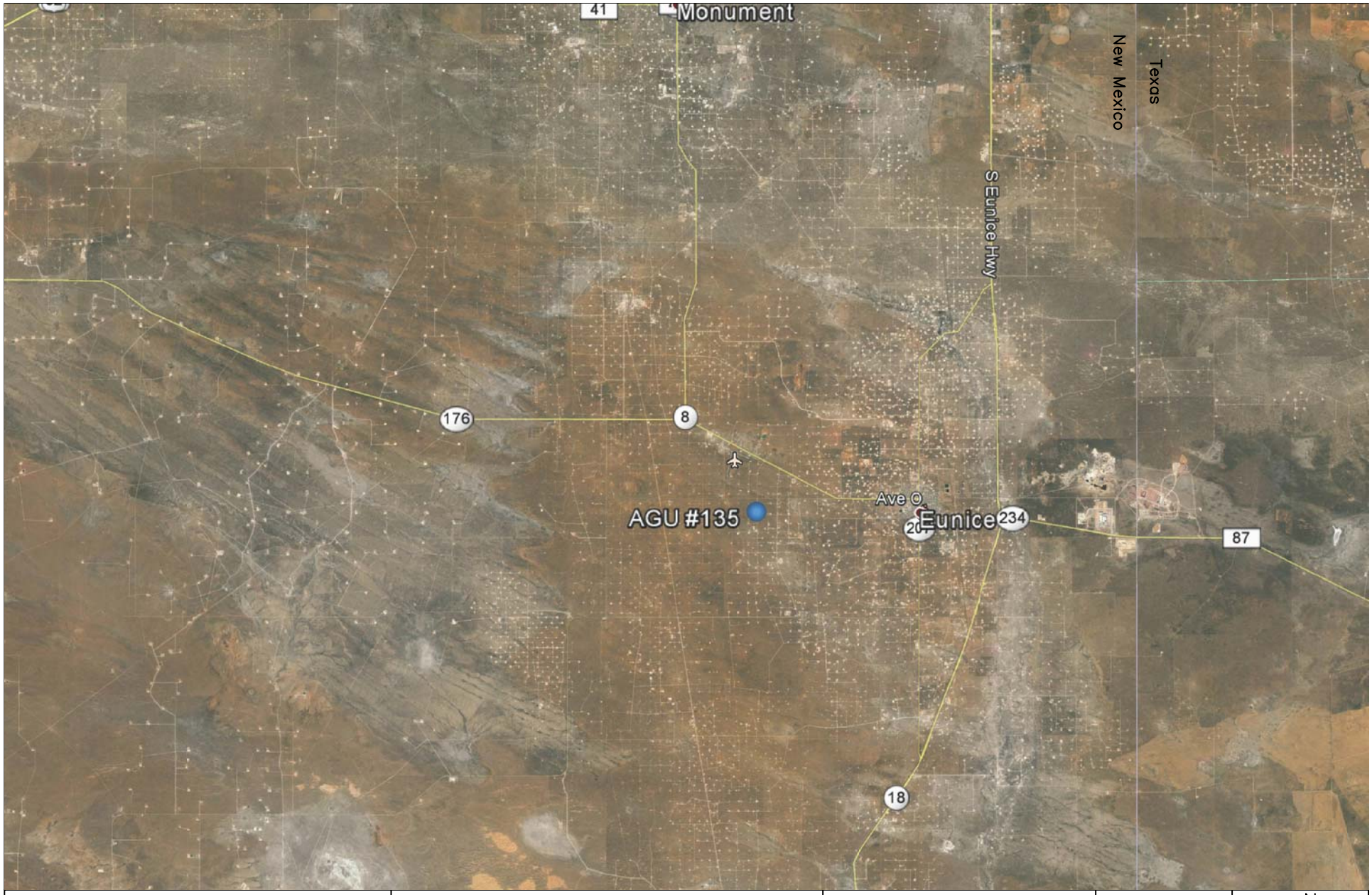


Figure 1 Area Map XTO Energy AGU #135	Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 35, T21S, R36E N 32° 26' 16.38" W 103° 13' 48.61" Elevation: 3,552 feet amsl	DWG By: D Dominguez September 2016	REVISED:	N
		0 3 6 Miles	SHEET 1 of 1	

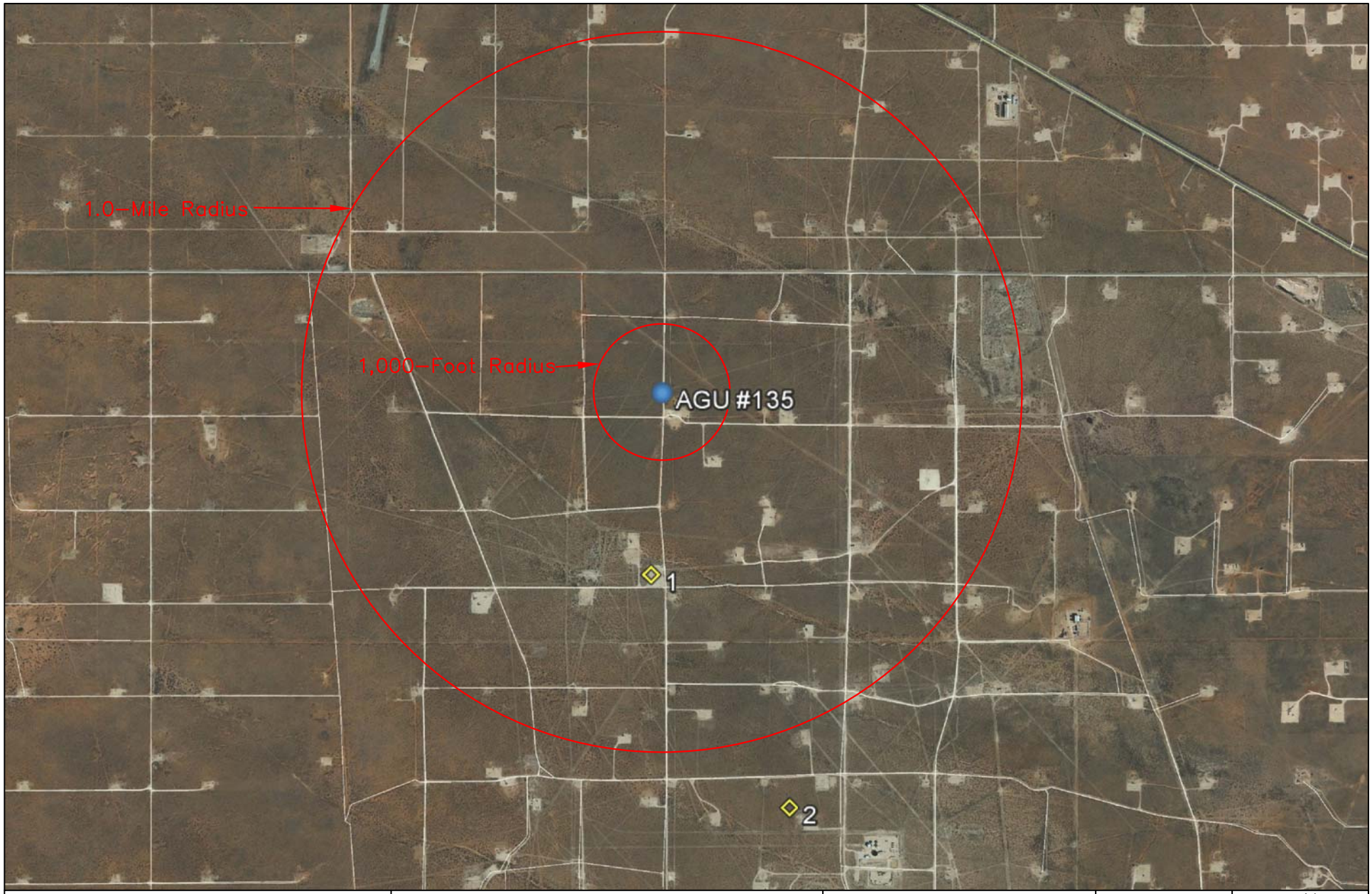


Figure 2 Site Location Map XTO Energy AGU #135	Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 35, T21S, R36E N 32° 26' 16.38" W 103° 13' 48.61" Elevation: 3,552 feet amsl	DWG By: D Dominguez September 2016 0 2,000 4,000 Feet	REVISED: SHEET 1 of 1 N

Figure 3 Sample/Site Map XTO Energy AGU #135	Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 35, T21S, R36E N 32° 26' 16.38" W 103° 13' 48.61" Elevation: 3,552 feet amsl	DWG By: D Dominguez September 2016	REVISED:	SHEET 1 of 1

TABLES

TABLE 1

Well Data

XTO Energy - AGU #135

Ref #	Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec	q64	q16	q4	Easting	Northing	Distance[B]	Date Measured	Surface Elevation[C]	Depth to Water (ft bgs)
1	CP 00760	0	CHEVRON USA, Inc	SRO	21S	36E	35	1	4	4	666347	3589567	786	--	3,569	--
2	CP 00761	0	CHEVRON USA, Inc	SRO	22S	36E	1	4	3	1	666964	3588569	1,875	--	3,532	--

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

[A] = In acre feet per annum [B] = In meters [C] = Elevation interpolated from USGS topographical map based on referenced location.

SRO = Secondary Recovery Of Oil

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
XTO Energy
AGU #135

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	30-Aug-16	288	160	<0.050	0.332	0.889	3.37	4.59	206	**13,000**	**13,206**	32
	1	In Situ	30-Aug-16	14.0	400	--	--	--	--	--	--	--	--	--
	2	In Situ	30-Aug-16	3.0	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	608
	3	In Situ	30-Aug-16	0.8	320	--	--	--	--	--	--	--	--	--
	4	In Situ	30-Aug-16	0.7	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
SP2	Surface	Excavated	30-Aug-16	13.3	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.1	20.1	48
	1	In Situ	30-Aug-16	2.9	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	80
	2	In Situ	30-Aug-16	1.1	120	--	--	--	--	--	--	--	--	--
SP3	8	In Situ	30-Aug-16	5.2	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	544
	10	In Situ	30-Aug-16	0.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	144
SP4	Surface	Excavated	30-Aug-16	1.2	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
SP5	Surface	Excavated	30-Aug-16	0.4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
SP6	Surface	Excavated	30-Aug-16	0.5	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	96
NMOCD Recommended Remedial Action Levels				100		10				50			5,000	1,000

- - = Not Analyzed
Bold *values are in excess of NMOCD Recommended Remedial Action Levels*

ATTACHMENTS

ATTACHMENT I
Photographs

Photograph #1 – Looking across release area

Photograph #2 – Looking across release area

Photograph #3 – Looking across release area

Photograph #4 – Looking across release area

Photograph #5 – Looking across release area

Photograph #6 – Looking across release area

Photograph #7 – Looking across release area

Photograph #8 – Excavated area

Photograph #9 – Excavated area

Photograph #10 – Excavated area

ATTACHMENT II
Laboratory Analytical Results

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 07, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: AGU #135

Enclosed are the results of analyses for samples received by the laboratory on 08/31/16 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP1 (SURFACE) (H601963-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2016	ND	2.08	104	2.00	0.112	
Toluene*	**0.332**	0.050	09/02/2016	ND	2.10	105	2.00	0.220	
Ethylbenzene*	**0.889**	0.050	09/02/2016	ND	2.01	101	2.00	0.109	
Total Xylenes*	**3.37**	0.150	09/02/2016	ND	6.12	102	6.00	0.141	
Total BTEX	**4.59**	0.300	09/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *135 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**206**	100	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	**13000**	100	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *160 %* *35-147*

Surrogate: 1-Chlorooctadecane *333 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP1 (2') (H601963-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2016	ND	2.08	104	2.00	0.112	
Toluene*	<0.050	0.050	09/02/2016	ND	2.10	105	2.00	0.220	
Ethylbenzene*	<0.050	0.050	09/02/2016	ND	2.01	101	2.00	0.109	
Total Xylenes*	<0.150	0.150	09/02/2016	ND	6.12	102	6.00	0.141	
Total BTEX	<0.300	0.300	09/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.0 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *90.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *92.3 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP1 (4') (H601963-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *102 %* *35-147*

Surrogate: 1-Chlorooctadecane *103 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP2 (SURFACE) (H601963-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	**20.1**	10.0	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *97.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *109 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP2 (1') (H601963-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.0 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *84.1 %* *35-147*

Surrogate: 1-Chlorooctadecane *99.2 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP3 (8') (H601963-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/01/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *92.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *97.7 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP3 (10') (H601963-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *93.7 %* *35-147*

Surrogate: 1-Chlorooctadecane *96.3 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP4 (SURFACE) (H601963-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	176	87.8	200	3.80	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	185	92.4	200	5.03	

Surrogate: 1-Chlorooctane *101 %* *35-147*

Surrogate: 1-Chlorooctadecane *98.5 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP5 (SURFACE) (H601963-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane *69.8 %* *35-147*

Surrogate: 1-Chlorooctadecane *80.9 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	08/31/2016	Sampling Date:	08/30/2016
Reported:	09/07/2016	Sampling Type:	Soil
Project Name:	AGU #135	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	UL- J SEC.35,T21S,R36E		

Sample ID: SP6 (SURFACE) (H601963-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	09/02/2016	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane *93.1 %* *35-147*

Surrogate: 1-Chlorooctadecane *106 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain of Custody Form

LAB Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Daniel Dominguez
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	XTO
Facility Name	AGU #135
Location	UL-J Sec. 35, T21S, R36E
Project Reference	
EPI Sampler Name	David Robinson

Bill To

Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
H601963																									
1	SP1 (Surface)	G	1			X					X		30-Aug-16	11:25	X	X	X								
2	SP1 (2')	G	1			X					X		30-Aug-16	11:45	X	X	X								
3	SP1 (4')	G	1			X					X		30-Aug-16	12:20	X	X	X								
4	SP2 (Surface)	G	1			X					X		30-Aug-16	12:50	X	X	X								
5	SP2 (1')	G	1			X					X		30-Aug-16	12:51	X	X	X								
6	SP3 (8')	G	1			X					X		30-Aug-16	14:05	X	X	X								
7	SP3 (10')	G	1			X					X		30-Aug-16	14:30	X	X	X								
8	SP4 (Surface)	G	1			X					X		30-Aug-16	14:55	X	X	X								
9	SP5 (Surface)	G	1			X					X		30-Aug-16	15:00	X	X	X								
10	SP6 (Surface)	G	1			X					X		30-Aug-16	15:05	X	X	X								

Sampler Relinquished: David Robinson — Date 8/31/16 — Time 6:00 am — Received By:

Relinquished by: — Date 9/31/16 — Time 3:30 pm — Received By: (lab staff) Maria Perez

Delivered by: 10.8c — Sample Cool & Intact: Yes / No — Checked By: AC #75

E-mail results to: ddominguezepi@gmail.com & john_robinson@xtoenergy.com

NOTES:

ATTACHMENT III
Copy of Initial NMOCD Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED
By JKeyes at 8:58 am, Aug 24, 2016

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

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company XTO Energy, Inc.	Contact John Robinson
Address 500 W Illinois, Midland, TX 79701	Telephone No. 575-441-5199
Facility Name Arrowhead Grayburg Unit #135	Facility Type Well
Surface Owner State	Mineral Owner	API No. 30-025-04917

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21-S	36-E	1980	South	1980	East	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced water and oil.	Volume of Release 117.42 barrels produced water	Volume Recovered 60 barrels produced water
Source of Release Flow Line	Date and Hour of Occurrence 8-23-16 1:00 pm	Date and Hour of Discovery 8-23-16 2:00 pm
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Left a message on Jamie Keyes phone at 5:55 am on the 6-24-16	
By Whom? John Robinson	Date and Hour 6-24-16 5:55 am	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Fiberglass flow line leak. Had vacuum truck clean up all standing water.

Describe Area Affected and Cleanup Action Taken.*
41X35 foot area in pasture. The rest of the leak ran down existing caliche road. Will test soil and clean up according to OCD standards.

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

Signature: John Robinson

Printed Name: John Robinson

Title: Maintenance Foreman

E-mail Address: john_robinson@xtoenergy.com

Date: 6-24-16 Phone: 575-441-5199

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Jamie Keyes

Approval Date: 08/24/2016 Expiration Date: 10/24/2016

Conditions of Approval:
Discrete samples only. Delineate and remediate per NMOCD guidelines.

Attached ☐
1RP 4414
nJXK1623732065
pJXK1623732217

* Attach Additional Sheets If Necessary

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

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

CONDITIONS

Action 195663

CONDITIONS

Operator: Empire New Mexico LLC 2200 S. Utica Place Tulsa, OK 74114	OGRID: 330679
	Action Number: 195663
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	3/10/2023