NOVEMBER 05, 2019

RELEASE CLOSURE REPORT

XTO ENERGY, INC. – NEW MEXICO C STATE NCT-2 #010 (API: 30-025-32691)

1RP-5027

Prepared for: XTO Energy, Inc.

Prepared by: Sport Environmental Services, LLC
502 N. Big Spring St.
Midland, TX 79701
www.sportenv.com

November 05, 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.
New Mexico C State NCT-2 #010
RP #: 1RP-5027
Approximate Geographic Coordinates: 32.560940°N, -103.284378°W
Unit Letter H (SE¼ of the NE¼) of Section 19, Township 20S, Range 37E
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.

Sport Environmental Services, LLC *(Sport Environmental)* has prepared, on behalf of XTO, a Release Closure Report for the New Mexico C State NCT-2 #010 *(subject site)*.

Background and Site History

On December 7, 2004, a release occurred when the major head switch on the oil storage tank malfunctioned resulting in a release of approximately twenty-eight (28) barrels of crude oil onto the compacted caliche pad of the active well and the tank battery pad and an area south of the pad. Approximately twenty-five (25) barrels of crude oil were recovered and returned to the storage tanks. The control switch was replaced, and the battery was placed back into service.

The Initial C-141 Form associated with this release indicates that the release occurred on December 7, 2004 and that it was discovered at approximately 4:30 pm. The release was promptly addressed and Environmental Plus, Inc. (EPI), a third-party environmental consultant based out of Eunice, New Mexico was hired to address the release.

Since several years have elapsed since EPI submitted documentation to NMOCD regarding the soil sampling and cleanup work performed at the subject site, XTO requested that Sport Environmental review the data associated with this subject site and follow-up on EPI's remedial efforts associated with requesting closure of this release.

This request for closure is based on a review of the NMOCD's Environmental and Administrative Records Database, historical and contemporary aerial imagery, as well as clean-up documentation from EPI's "Final C-141 and closure documentation" report dated March 11, 2005, all of which indicated that the release had been properly addressed in the past. Given that EPI's original work plan was approved by NMOCD and that aerial imagery shows excavation activity at the release location as well as the lands subsequent revegetation, it would appear that EPI's approved remedial activities were successful.

The original "Final C-141 and closure documentation" issued by EPI documents evidence of proper release remedy. The entire original document produced by EPI is available in **Attachment A**. As will be detailed within this report, the additional delineation and confirmation sampling requested by NMOCD was performed by Sport Environmental – this additional data provides further confirmation that the subject site has been successfully remediated.

Site Assessment, Characterization, and Groundwater Depth Determination

On December 20, 2017, James McDaniel, EH&S Supervisor with XTO, hand-delivered a copy of the aforementioned SESI final report to the NMOCD District 1 Office to ensure the agency had received the submittal. On April 26, 2018, Ms. Olivia Yu, NMOCD Environmental Specialist, denied XTO's request for closure and stated that the "Final C-141" would not be accepted due to insufficient release characterization (please see **Attachment B** for a detailed list of further release characterization requests outlined within an email from Olivia Yu to James McDaniel).

In 2018, following the NMOCD's request for further release characterization XTO hired Sport Environmental Services, LLC *(Sport Environmental)* to perform further soil sampling activities to characterize the release. Sport Environmental's efforts to provide improved site characterization data included additional delineation of the release area as shown in the Site Plan and Soil Sampling Diagram (**Attachment C**), discrete depth soil sampling with a Geoprobe 540UD to greater depths than were originally achieved by SESI in 2005, and submission of all soil samples to a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory for analysis of Chloride, BTEX, and TPH concentrations. The results of this sampling will be compared to the closure criteria concentrations as described below.

As part of assessment and characterization of the subject site by Sport, 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 D**.

A groundwater depth evaluation was performed as well. The relevant New Mexico Office of the State Engineer (NMOSE) and GIS query tools were reviewed for groundwater depth information. A 0.5-mile query was performed using the NMOSE Water Rights Reporting System, and it revealed three (3) wells drilled between 1953 and 1972 located within 0.5-mile of the subject site with a consistent depth to water of 35 feet. Please see **Attachment E** for the results of the NMOSE query which have established groundwater depth at the site to be approximately 35 feet below ground surface ('bgs). Therefore, based on the remediation standards outlined in §19.15.29 NMAC Table 1, the following are the applicable constituent concentration limits for the release at the subject site:

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 less than 50 feet	
Constituent	***Limit (mg/Kg)***
Chloride	600
TPH (Total Petroleum Hydrocarbons) (GRO+DRO+MRO)	100
BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)	50
Benzene	10

Analytical Results Summary

Sport Environmental performed the additional delineation soil sampling at the subject site on October 22, 2018 with a Geoprobe 540UD *(operated by Sport Environmental)*, on June 26, 2019 with an air-rotary drilling rig *(operated by Harrison and Cooper, Inc.)*, and on October 16, 2019 with an excavator *(operated by Production Management, Inc.)*. During the sampling events, samples were collected in accordance with proper sampling protocols to ensure representative characterization of soils submitted to TestAmerica or Xenco Laboratories, both of which are NELAP certified laboratories, under proper chain-of-custody for analysis. Each constituent was analyzed using appropriate analytical methods. Chlorides were analyzed using EPA Method 300, BTEX constituents were analyzed using Method 8260B, and TPH was analyzed using Method 8015B. The analytical results, associated with the October 22, 2018 sampling event, demonstrated concentrations of all constituents were below their respective regulatory limits with the exception of TPH at the surface (0-1'bgs interval) and at the 5'bgs depth interval on the Caliche Pad (CP). Given that the site is an active tank battery, these slightly elevated concentrations of TPH are likely unrelated to the subject release. A table summarizing the analytical results associated with the October delineation and confirmation sampling event is provided in the table on the following page for reference.

Table 2: October 22, 2018 Soil Sampling Summary

	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Gasoline Range Organics [C6 - C10]	MRO (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 Less than 50 feet	10	Total BTEX Limit is 50 mg/Kg			Total TPH Limit is 100 mg/Kg			600
490-161842-1 NCT-CP-CS1-001 (0-1' bgs) (CP = Caliche Pad) 10/22/2018 12:35 PM	ND	ND	ND	ND	ND	96.4	175	NS
490-161842-2 NCT-CP-CS2-001 (1'-2' bgs) 10/22/2018 12:35 PM	ND	ND	ND	ND	ND	5.80	ND	NS
490-161842-3 NCT-CP-CS3-001 (5' bgs) 10/22/2018 12:50 PM	ND	ND	ND	ND	ND	124	180	NS
NCT-IC-CS1-001 (2'-3' bgs) (IC = Inside Containment) 10/22/2018 1:15 PM	ND	ND	ND	ND	ND	14.2	11.0	NS
490-176570-1 BG-001 @ 0-1'bgs 6/26/2019 10:14 AM	ND	ND	ND	ND	ND	3.6	ND	ND
490-176570-2 BG-001 @ 5'bgs 6/26/2019 10:18 AM	ND	ND	ND	ND	ND	3.1	ND	ND
490-176570-3 BG-001 @ 10'bgs 6/26/2019 10:19 AM	ND	ND	ND	ND	ND	2.92	ND	22.8
490-176570-4 BG-001 @ 15'bgs 6/26/2019 10:20 AM	ND	ND	ND	ND	ND	2.99	ND	78.6
490-176570-5 BG-001 @ 20'bgs 6/26/2019 10:21 AM	ND	ND	ND	ND	ND	2.81	ND	11.7
490-176570-6 SB1-002 @ 0-1'bgs 6/26/2019 10:34 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-7 SB1-002 @ 5'bgs 6/26/2019 10:35 AM	ND	ND	ND	ND	ND	2.82	ND	12.0
490-176570-8 SB1-002 @ 10'bgs 6/26/2019 10:36 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-9 SB1-002 @ 15'bgs 6/26/2019 10:37 AM	ND	ND	ND	ND	ND	3.27	2.71	ND
490-176570-10 SB1-002 @ 20'bgs 6/26/2019 10:38 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-11 SB2-001 @ 0-1'bgs 6/26/2019 10:42 AM	ND	ND	ND	ND	ND	5.10	ND	ND
490-176570-12 SB2-001 @ 5'bgs 6/26/2019 10:43 AM	ND	ND	ND	ND	ND	10.2	5.27	ND
490-176570-13 SB2-001 @ 10'bgs 6/26/2019 10:44 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-14 SB2-001 @ 15'bgs 6/26/2019 10:45 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-15 SB2-001 @ 20'bgs 6/26/2019 10:46 AM	ND	ND	ND	ND	ND	ND	ND	ND
490-176570-16 SB3-001 @ 0-1'bgs 6/26/2019 10:50 AM	ND	0.00102	ND	ND	ND	17.6	5.70	ND
490-176570-17 SB3-001 @ 5'bgs 6/26/2019 10:51 AM	ND	ND	ND	ND	ND	3.21	ND	ND
490-176570-18 SB3-001 @ 10'bgs 6/26/2019 10:52 AM	ND	ND	ND	ND	ND	2.76	ND	ND
490-176570-19 SB3-001 @ 15'bgs 6/26/2019 10:53 AM	ND	ND	ND	ND	ND	3.09	ND	7.09
490-176570-20 SB3-001 @ 20'bgs 6/26/2019 10:54 AM	ND	ND	ND	ND	ND	ND	ND	ND

NS = Not Sampled
ND = Non-Detect

To be especially protective, the affected soil at the surface and at a depth of 5-6'bgs was removed from the subject site. This soil was hauled to an approved disposal facility (please see **Attachment F** for a copy of the relevant waste manifests) and replaced with fresh caliche. On October 16, 2019, prior to backfilling the surface with the fresh caliche, additional soil samples were taken from the walls and floor of the area that had been affected by TPH. The North Wall (NW), South Wall (SW), East Wall (EW), West Wall (WW), and Excavation Floor (EF) of the point where elevated TPH concentrations were observed were subject to confirmation sampling. Results from this soil sampling event confirmed that the site now meets the appropriate remediation standards for all relevant COCs including TPH. Please see the table below for a summary of results from the October 16, 2019 sampling event.

Table 3: October 16, 2019 Soil Sampling Summary

		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Hydrocarbons	Diesel Range Organics	Oil Range Hydrocarbons	Total TPH	Chloride
Sample ID	**Sample Date & Time**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NCT-CP- NW @ 0-1'BGS	10/16/19/ 11:10	<0.000208 U	<0.00100 U	<0.000337 U	<0.000438 U	<0.000208 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**3.94 J**
NCT-CP- NW @ 5-6 'BGS	10/16/19/ 11:32	<0.000205 U	<0.000990 U	<0.000332 U	<0.000432 U	<0.000205 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**26.0**
NCT-CP- EF @ 6'BGS	10/16/19/ 11:35	<0.000207 U	<0.00100 U	<0.000336 U	<0.000438 U	<0.000207 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**34.1**
NCT-CP- WW @ 0-1'BGS	10/16/19/ 11:09	<0.000207 U	<0.00100 U	<0.000336 U	<0.000437 U	<0.000207 U	<14.9 U	<14.9 U	<14.9 U	<14.9 U	**4.09 J**
NCT-CP- WW @ 5-6' BGS	10/16/19/ 11:31	<0.000207 U	<0.00100 U	<0.000336 U	<0.000438 U	<0.000207 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**42.1**
NCT-CP- SW @ 0-1'BGS	10/16/19/ 11:07	<0.000208 U	<0.00100 U	<0.000337 U	<0.000438 U	<0.000208 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**2.14 J**
NCT-CP- SW @ 5-6'BGS	10/16/19/ 11:33	<0.000207 U	<0.000998 U	<0.000335 U	<0.000436 U	<0.000207 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**29.8**
NCT-CP- EW @ 0-1'BGS	10/16/19/ 11:08	<0.000208 U	<0.00100 U	<0.000337 U	<0.000438 U	<0.000208 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**1.33 J**
NCT-CP- EW @ 5-6'BGS	10/16/19/ 11:30	<0.000205 U	<0.000990 U	<0.000332 U	<0.000432 U	<0.000205 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	**21.0**

The full analytical results, including chain-of-custody information, from all sampling events are available in **Attachment G**.

When the latest results associated with Sport Environmental's soil sampling are added to the results from initial sampling performed, the analytical results demonstrate that the cleanup efforts at the subject site have been successful and that concentrations of all constituents are below their respective closure criteria limits.

Observations of the Subject Site

When Sport Environmental was present on location at the subject site, it appeared that the natural grade of the land, and vegetation were similar to the surrounding areas that would not have been affected by the release. The original C-141 that was submitted to NMOCD indicates that the release affected the well pad and a pasture area to the south. Aerial imagery shows that earthworks at this pasture area took place promptly following the release and that these efforts were successful in restoring the subject site to its pre-release condition. The most recent aerial imagery confirms that in the time since EPI's remedial work took place that the vegetation near the subject site has remained consistent throughout the years or improved with time. The most recent images available indicate that the surface topography and vegetation are similar to that of the surrounding area. In addition, during Sport Environmental's site visits and rounds of confirmation sampling, the caliche well pad where the release occurred in 2005, was observed to be in good condition and does not show evidence of this or other releases.

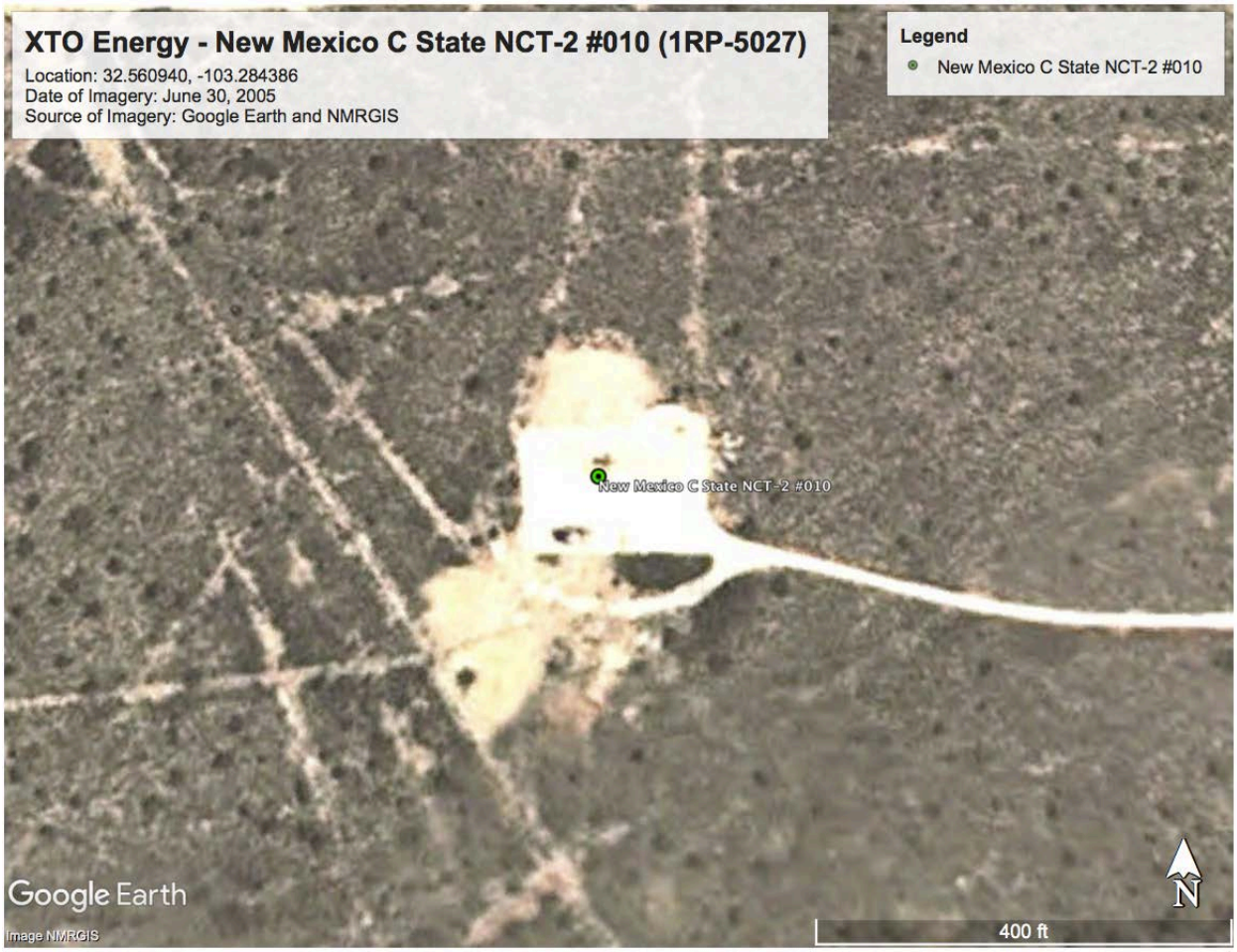


Figure 1*. Georeferenced Google Earth Image Depicting Caliche Well Pad Associated with the Subject Site and the Pasture Area to the South/Southwest. The pasture to the south of the caliche well pad has been disturbed and is free of vegetation indicating that earthworks and other efforts to remediate the affected area took place shortly after the March 2005 release. This observation supports the work plan that was described in EPI's original closure request documentation.*

Figure 2*. Georeferenced Google Earth Image Depicting Caliche Well Pad Associated with the Subject Site. This is the most current aerial image of the subject site that is available at the time of report preparation. The image is from November of 2017 and shows that the caliche pad is in good condition. Site visits performed by Sport Environmental in 2018 and 2019 confirm that the subject site is consistently well-operated and maintained. Vegetation has been restored in the area south of the caliche well pad and observations of the site confirm that the topography of the previously affected area has also been restored to its original grade to prevent erosion of soil or ponding of water.*

As shown in Figure 1, Figure 2, and in the photographic log that follows, the subject site appears to have undergone the remedial activities described in EPI's closure documentation. The work that was performed has contributed to the subject site continuing to be a well-maintained and release-free well pad.

Geo-tagged Site Photographs

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

Photographic Log

Photograph	Description
	The release location and the clean berm that provides secondary containment are shown here. Several subsurface flowlines were present at the subject site, so special care was taken in avoiding these potential safety hazards. Discrete depth sampling was achieved using stainless-steel hand augers.
	The location of the soil sample taken from within the secondary containment area at the caliche well pad is shown here along with a marked tape measure indicating the depth at which sampling occurred.

	A return trip to the subject site took place as part of confirmation sampling efforts. No visual or olfactory indications of contamination were present; however, one location did exceed the 100-ppm TPH limit. That affected area was remediated by hauling off the TPH-affected soil and replacing it with fresh caliche. The photograph shows that vegetation is present at the subject site and that the topography matches the surrounding area.

In addition to the photographs provided above, field notes from Harrison Cooper, Inc., the drilling company that was subcontracted to assist with delineation efforts at the subject site, are available in **Attachment H** and include the boring logs associated with this work.

Request for Release Closure – Confirmation Analyses Demonstrates Subject Site is Remediated

Given the data provided in EPI's Final C-141 and closure documentation report dated March 11, 2005, a review of aerial imagery, several rounds of confirmation soil sampling performed by Sport Environmental Services, and the replacement of TPH-affected soil with fresh caliche on a portion of the well pad, this report confirms that the subject site has been restored to its pre-release conditions.

Based on the laboratory analytical results and the assessment data referenced herein Sport Environmental respectfully requests closure status for XTO Energy, Inc.'s New Mexico C State NCT-2 #010 release which has been assigned the NMOCD order number 1RP-5027. A copy of the NMOCD's new Form C-141 is available in **Attachment I** to accompany this updated request for closure.

If NMOCD have any further questions or comments regarding this request for closure, please contact us at (432) 683-1100.

Sincerely,

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

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

List of Attachments:

A	*EPI Final C-141 and Closure Documentation (March 2005)*
B	*NMOCD Email Correspondence Requesting Further Soil Sampling Copy (sent by NMOCD April of 2018)*
C	*Site Plan and Soil Sampling Diagram*
D	*0.5-Mile Radius Map Denoting Absence of Major Watercourses*
E	*Groundwater Depth Data*
F	*Waste Manifests*
G	*Analytical Reports and Chain-of-Custody Forms*
H	*Soil Boring Log*
I	*New Final Form C-141 (dated November 5, 2019)*

Attachment A

EPI Final C-141 and Closure Documentation Report dated March 11, 2005

March 11, 2005

Mr. Paul Sheeley
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French
Hobbs, New Mexico 88240

Re: XTO Energy Inc.New Mexico State C NCT2 #10 Final C-141 and closure documentation
UL H (SE¼ of the NE¼) of Section 19, T20S, R37E
Latitude: 32°33'39.391"N and Longitude: 103°17'03.887"W
Landowner: State of New Mexico
Driving Directions: From the intersection of NMSR 8 and NMSR 322 in Monument, NM, go south on NMSR 8 for 6.4 miles. Then right on Maddox Road 4 miles, then right 1.0 miles, then right 0.15 miles, then right 0.15 miles to the NM State C NCT2 #10 work location.

Dear Mr. Sheeley:

Environmental Plus, Inc. (EPI), on behalf of Guy Haykus, XTO Energy Inc., submits the attached New Mexico Oil Conservation Division (NMOCD) final form C-141 for the above-referenced leak site located on land owned by the State of New Mexico, approximately 3.6 miles southwest of Monument, New Mexico. The attached site information and metrics form ranks the site in accordance with the "**NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).**" The impacted soil is exempt from EPA RCRA 40 CFR Part 261

NMOCD Site Rank and Remedial Goals

The New Mexico Office of the State Engineer information indicates an average depth to groundwater at the site of 35-feet below ground surface ('bgs) and identifies 2 agricultural water wells located within a 1,000-foot radius of the site. There were no surface water bodies observed to be within a 1,000-foot radius of the site. These characteristics result in a site ranking score of 40 points that applies the following remedial goals for the constituents of concern (CoCs):

P.O. BOX 1558 ••• 2100 WEST AVE. O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 505•394•3481 FAX 505•394•2601

ENVIRONMENTAL PLUS, INC.

CONSTITUENTS OF CONCERN/CONTAMINANTS	REMEDIAL GOAL
Benzene	10 mg/Kg*
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH^{8015m})	100 mg/Kg
Chloride residuals must not be capable of impacting local water resources above the New Mexico Water Quality Control Commission (WQCC) water quality standard of 250 mg/Liter.	
*mg/Kg = milligrams per kilogram; which is equivalent to parts per million (ppm).	

Occurrence and Mitigation

The release occurred when the major head switch on the oil storage tank malfunctioned resulting in a release of approximately 28 barrels of crude oil onto the compacted caliche pad of the active well and tank battery pad and an area south of the pad. Approximately 25 barrels of crude oil were recovered and returned to the storage tank. The control switch was replaced and the battery placed back into service. The total release area covered approximately 7,260 square feet of surface area (140' x 100'). Photographs and maps are attached for reference.

Delineation and Remediation and Follow-up

XTO Energy Inc. delineated the vertical and horizontal extents of CoC impact during excavation of the release. Approximately 1-foot of the visibly impacted portion of the caliche pad north of the battery was removed and replaced with clean caliche. All excavated soil was initially stockpiled on plastic north of the wellpad prior to disposal off-site. Analytical results from the December 10, 2004 sampling of the sides and bottom of the excavation indicated the sidewalls were less than the NMOCD CoC remedial goals, the bottom TPH^{8015m} remained slightly elevated at 1,362 mg/Kg. An additional foot of soil was removed from the bottom of the excavation and resampled on December 15, 2004 and analyzed for TPH^{8015m} and the BTEX compounds. The analytical results were non-detectable (ND) and considered acceptable (reference the attached analytical result summary and illustrations and laboratory reports). The excavation was subsequently backfilled with local clean soil and contoured to the natural grade. A total of 908 cubic yards of soil impacted above the NMOCD CoC remedial goals was excavated and disposed of in the Environmental Plus, Inc. Landfarm #NM-01-0013. The site will be reseeded in the Spring of 2005.

Closure Request

EPI, on behalf of XTO Energy, Inc., requests that the NMOCD consider the information provided in this letter report and require "no further action" at the site.

If there are any questions or more information is needed, please call Mr. Cody Miller or myself at the office or at 505.631.8447 and 505.390.7864, respectively or Mr. Guy Haykus at 505.394.2089. All official communication should be addressed to:

Mr. Guy Haykus
XTO Energy Inc.
P.O. Box 700
Eunice, New Mexico 88231
505.394.2089

Sincerely,

Pat McCasland
EPI Technical Services Manager
enviplus1@aol.com

cc: Guy Haykus, XTO Energy Inc. (William_Haykus@XTOEnergy.com)
Dudley McMinn, XTO Energy, Inc. (Dudley_McMinn@XTOEnergy.com)
file

Enclosures:
Site Information and Metrics Form
Final NMOCD form C-141
Annotated Topographical Map
Site Map
New Mexico Office of the State Engineer Water Well Report
Photographs
Analytical Results Summary
Laboratory Reports

XTO ENERGY	Site Information and Metrics	Incident Date: 12/7/2004	NMOCD Notified: 12-8-04 @ 9:20 AM

SITE: New Mexico State-C NCT2 #10	Assigned Site Reference #:
Company: XTO Energy Inc.	
Street Address:	
Mailing Address: 200 N. Loraine Suite 800	
City, State, Zip: Midland, Texas 79701	
Representative: Guy Haykus	
Representative Telephone: 505.394.2089	
Telephone:	
Fluid volume released (bbls): 28 bbls	Recovered (bbls): 25 bbls
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: NM State C NCT2 #10	
Source of contamination: Crude Oil Storage Tank	
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico	
LSP Dimensions 140' x 100'	
LSP Area: 7,260 sqft ft^2	
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32°33'39.391"N	
Longitude: 103°17'03.887"W	
Elevation above mean sea level: ~3,527 'amsl (interpolated from the USGS topographical map)	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SE¼ of the NE¼	Unit Letter: H
Location- Section: 19	
Location- Township: T20S	
Location- Range: R37E	
Surface water body within 1000 ' radius of site: none	
Domestic water wells within 1000' radius of site: none	
Domestic water wells within 1000' radius of site:	
Agricultural water wells within 1000' radius of site: 2	
Agricultural water wells within 1000' radius of site:	
Public water supply wells within 1000' radius of site: none	
Depth from land surface to ground water (DG) 35'bgs	
Depth of contamination (DC) – 5'bgs	
Depth to ground water (DG – DC = DtGW) - 30-feet	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 20	*Wellhead Protection Area Score= 20*	*Surface Water Score= 0*

Site Rank (1+2+3) = 40

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **XTO Energy Inc.**	Contact **Guy Haykus**
Address **200 N. Loraine Suite 800 Midland, Texas 79701**	Telephone No. **505.394.2089**
Facility Name **NM State C NCT2 #10**	Facility Type **Crude Oil Storage Tank**

Surface Owner **State of New Mexico** *CCA	Mineral Owner State	Lease No. 30-025-32691

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	19	T20S	R37E					Lea

Latitude: 32°33'39.391"N **Longitude:** 103°17'03.887"W

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **28 bbls barrels**	Volume Recovered **25 bbls barrels**
Source of Release **Crude Oil Storage Tank**	Date and Hour of Occurrence **12/7/2004 @ ?**	Date and Hour of Discovery **12-7-04 @ 4:30 PM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Paul Sheeley (Donna Mull)**	
By Whom? **Janice Courtney**	Date and Hour **12-8-04 @ 9:20 AM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Crude Oil Storage Tank Head switch failed and crude oil storage tank overflowed.

Describe Area Affected and Cleanup Action Taken.*
A total of 908 cubic yards of soil impacted above the NMOCD CoC remedial goals was excavated and disposed of in the Environmental Plus, Inc. Landfarm #NM-01-0013. Remedial Goals achieved: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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.

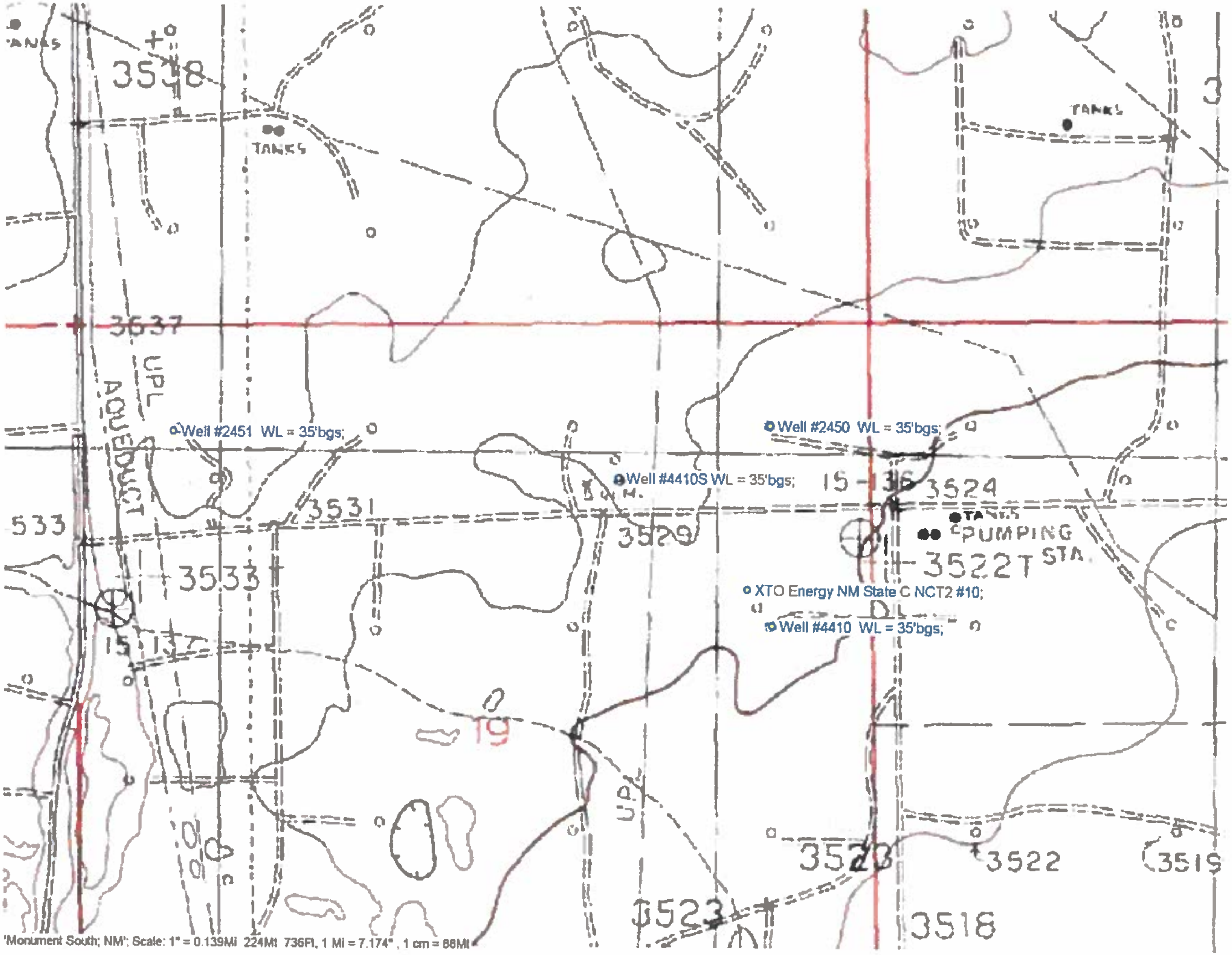
Signature: [signature] for G. Haykus	**OIL CONSERVATION DIVISION**
Printed Name: Guy Haykus (e-mail: William_Haykus@XTOEnergy.com)	Approved by District Supervisor:
Title: Supervisor	Approval Date: / Expiration Date:
Date: 12/14/2004 Phone: 505.394.2089	Conditions of Approval: / Attached ☐

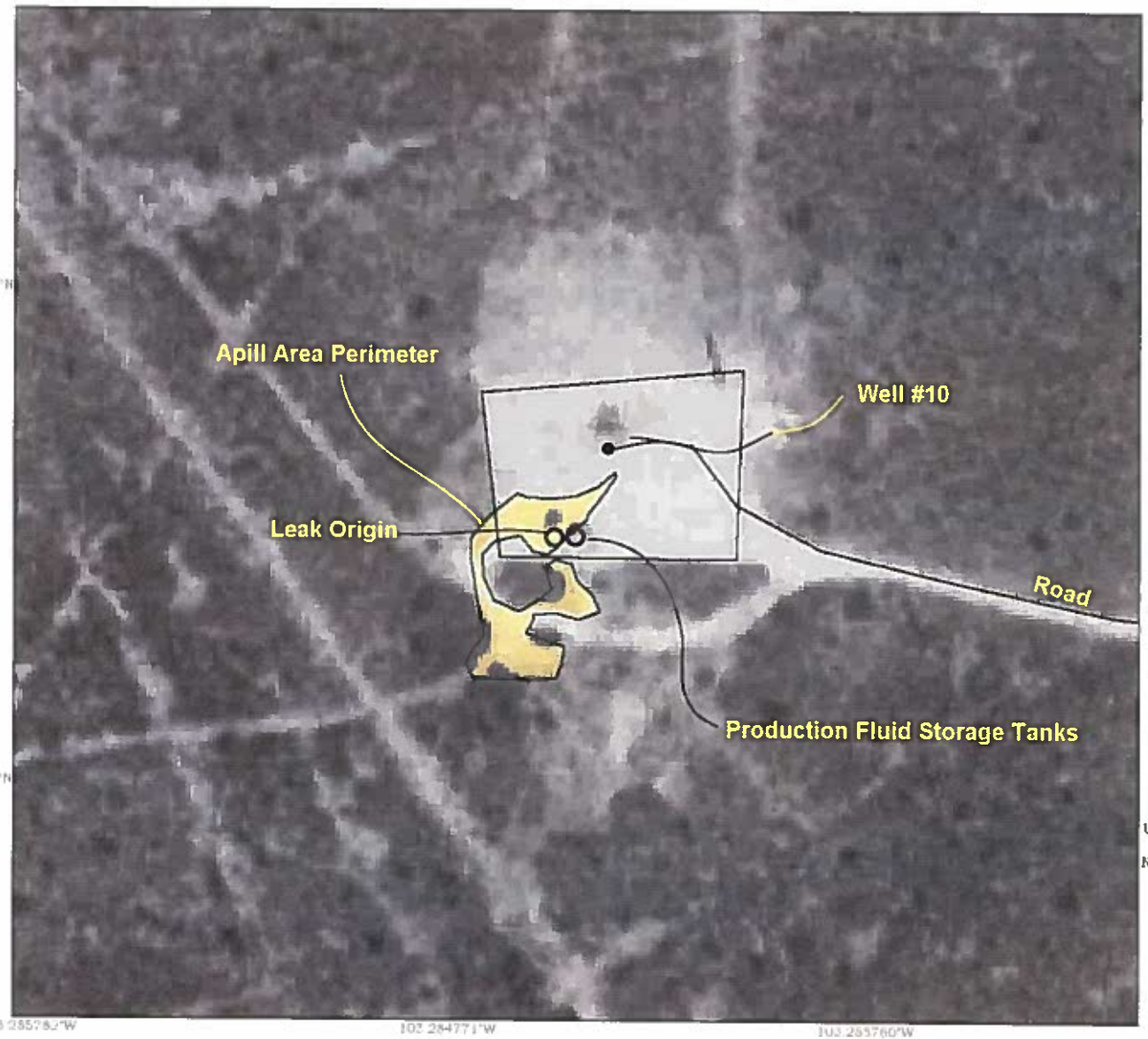
* Attach Additional Sheets If Necessary

1RP-5027

nPRS0511555617

pOY1811645811


TANKS
3538
TANKS
3637
UPL
AQUEDUCT
Well #2451 WL = 35'bgs;
533
3531
3533
15 17
19
Well #4410S WL = 35'bgs;
3529
UPL
3523
Well #2450 WL = 35'bgs;
15 16
3524
TANKS
PUMPING STA
3522T
XTO Energy NM State C NCT2 #10;
Well #4410 WL = 35'bgs;
3520
3522
3519
3518
TANKS
3
'Monument South; NM'; Scale: 1" = 0.139Mi 224Mt 736Ft, 1 Mi = 7.174", 1 cm = 88Mt



XTO Energy
New Mexico
State C
NCT2 #10
UL-H Sec 19
T20S R37E
Lea Co NM
Affected Area
~7,260 sqft

N

Scale 1:1,500

0 150.0

Feet

Universal Transverse Mercator
13 North
NAD 1983 HPGN (New Mexico)

XTO New Mexico C 12-7-04.cor
3/12/2005

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 37E Sections: 17,18,19,20,29,30,

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

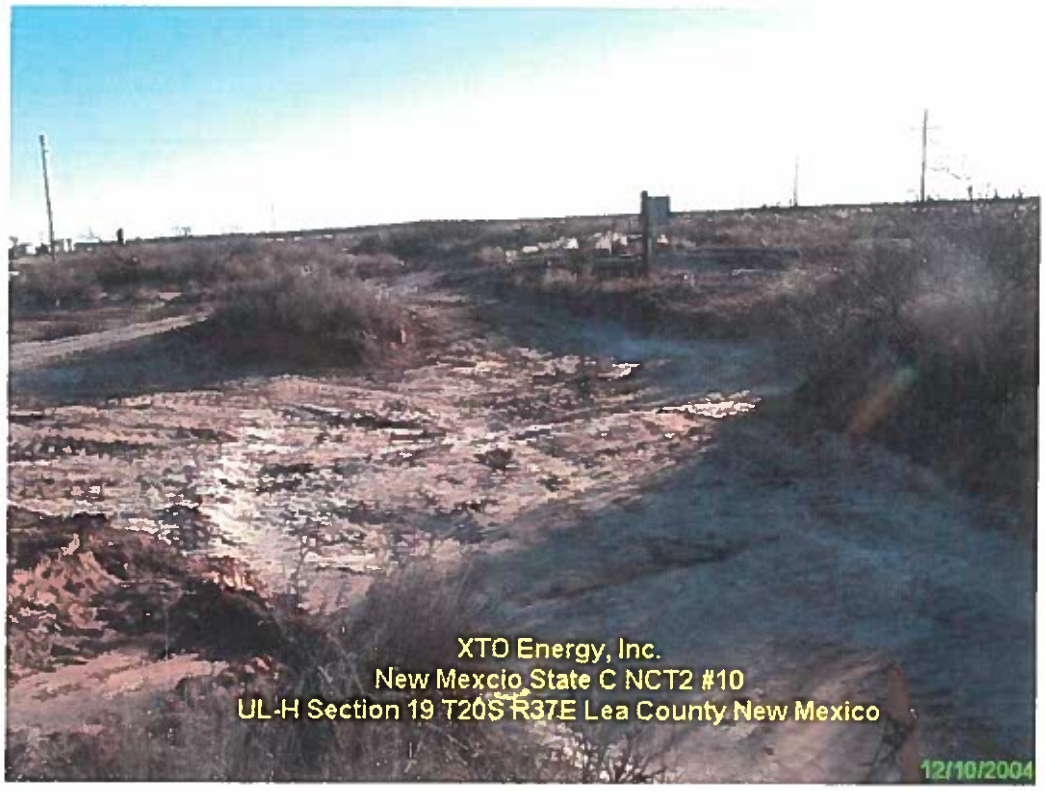
Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

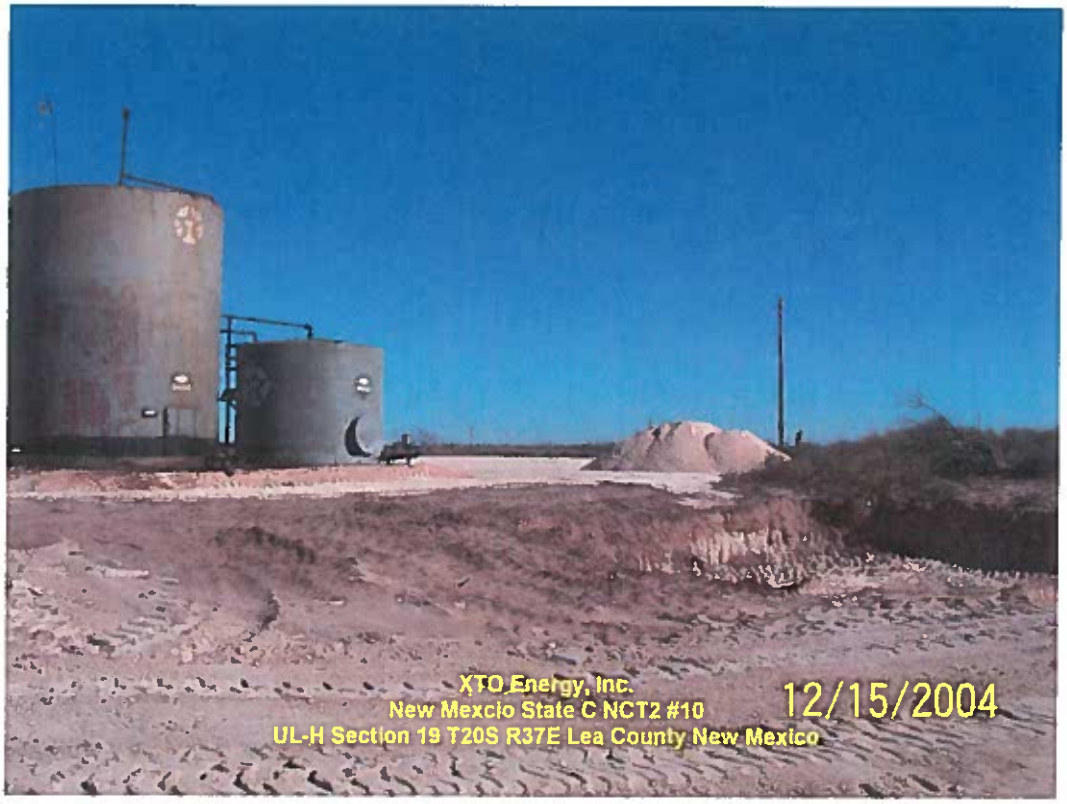
AVERAGE DEPTH OF WATER REPORT 12/14/2004

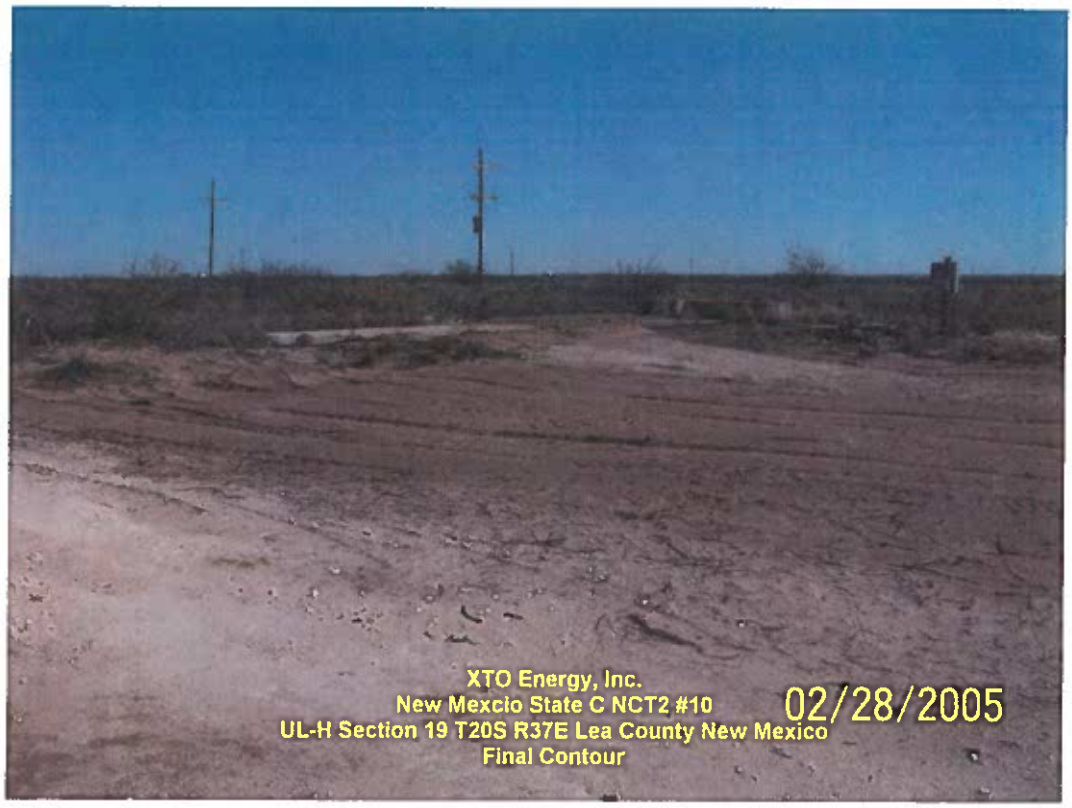
								(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	20S	37E	19				6	35	35	35

Record Count: 6

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher 12/14/2004







XTO ENERGY

XTO Energy, Inc.
New Mexico State C NCT 2 #10
Excavation and Spoils Data

Sample Location	Sample Description	Sampling Interval (FT BGS[1])	SAMPLE ID#	Date	Lithology	VOC Headspace	GRO[3]	DRO[4]	TPH[5]	BTEX[6]	Benzene	Toluene	Ethylbenzene	m/p/o Xylene	Chloride
						ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Background-300' south	Composite	0-1	SXTONMC12004BG	12/10/04	Sand	0	na	na	na	na	na	na	na	na	na
Bottom	Composite	4	SXTONMC12004NBH	12/10/04	Sand	130.0	172	1190	1362	3.3553	0.0373	0.46	0.708	2.15	64
Bottom	Composite	5	SXTO121504BHC	12/15/04	Sand	na	<10.0	ND	ND	ND	ND	ND	ND	ND	na
Northeast Sidewall	Composite	0-4	SXTONMC12004NE	12/10/04	Sand	4	<10.0	ND	ND	ND	ND	ND	ND	ND	64
Northwest Sidewall	Composite	0-4	SXTONMC12004NW	12/10/04	Sand	6.0	<10.0	ND	ND	ND	ND	ND	ND	ND	48
Southeast Sidewall	Composite	0-4	SXTONMC12004SE	12/10/04	Sand	11	<10.0	16.2	16.2	0.013	ND	0.003	0.003	0.007	64
Southwest Sidewall	Composite	0-4	SXTONMC12004SW	12/10/04	Sand	6	<10.0	ND	ND	ND	ND	ND	ND	ND	64
Spoils Pile	Composite	0-4	SXTONMC12004SP	12/10/04	Sand	82	34.6	897	931.6	0.756	0.14	0.086	0.101	0.569	64
Spoils Pile	East Comp	--	Stock Pile E.S.	12/14/04	Sand	35	70.7	1430	1500.7	1.399	0.336	0.145	ND	0.918	64
Spoils Pile	West Comp.	--	Stock Pile W.S.	12/14/04	Sand	49	80.3	1370	1450.3	1.734	0.392	0.152	ND	1.19	112
Spoils Pile	South Comp.	--	Stock Pile S.S.	12/14/04	Sand	65	59	1280	1339	1.283	0.13	0.203	0.098	0.852	80
Spoils Pile	North Comp.	--	Stock Pile N.S.	12/14/04	Sand	85	55.6	1082	1137.6	1.461	0.294	0.109	0.08	0.978	80
				Method Detection Limit			10	10			0.002	0.002	0.002	0.006	0.025
				New Mexico Oil Conservation Division Remedial Goals		100.0			100	50.0000	10.0000				

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{12}

[4]DRO-Diesel Range Organics C_{12}-C_{35}

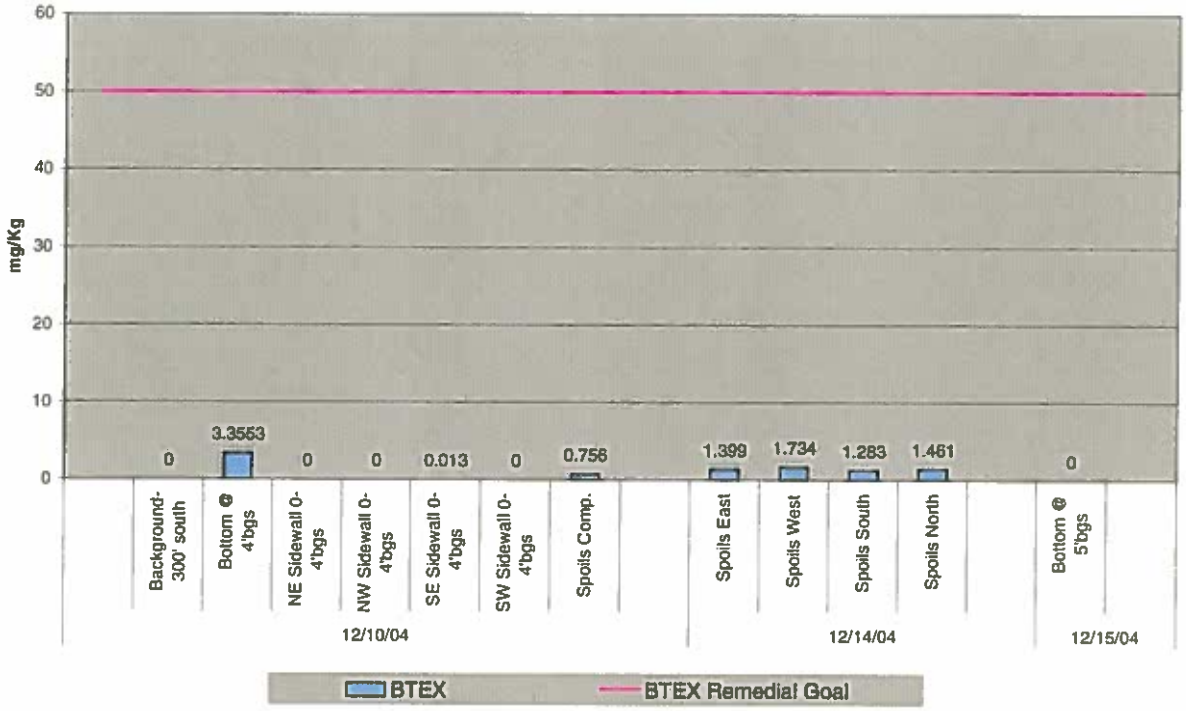
[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

na - not analyzed

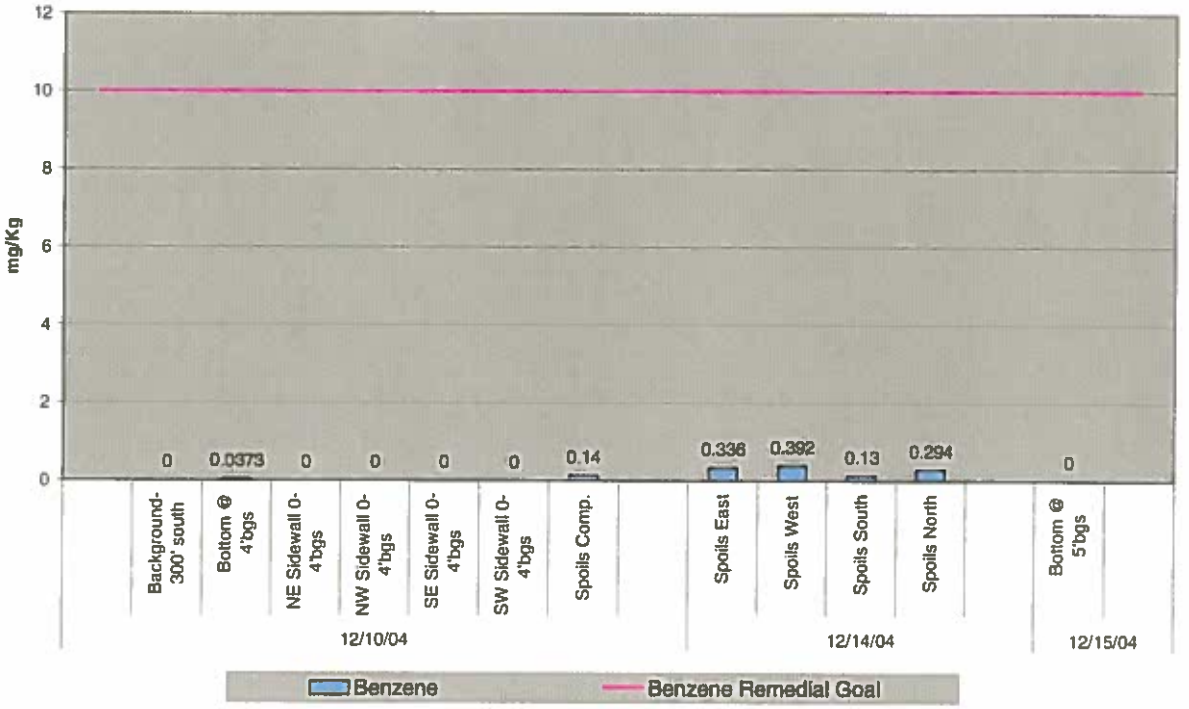
[6]BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

ND - not detected above the method detection limit

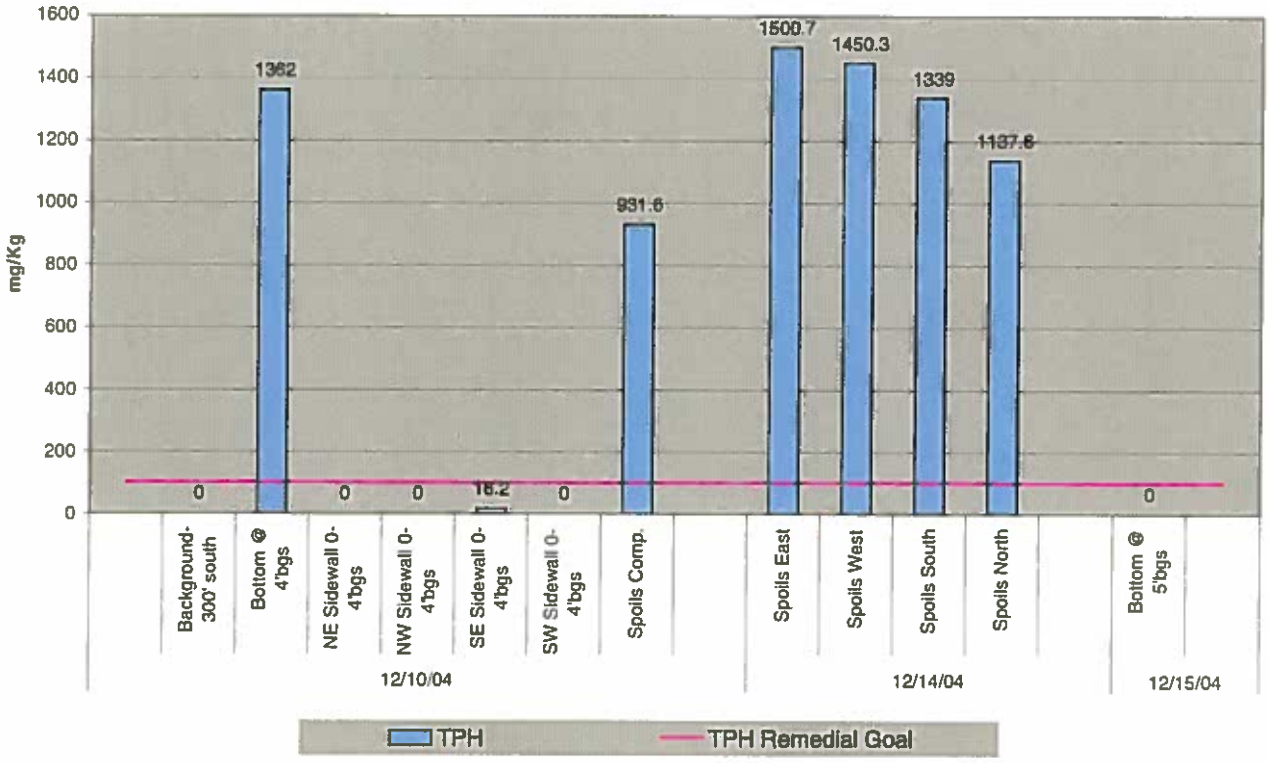
XTO Energy Inc.
New Mexico State C NCT2 #10
BTEX Delineation



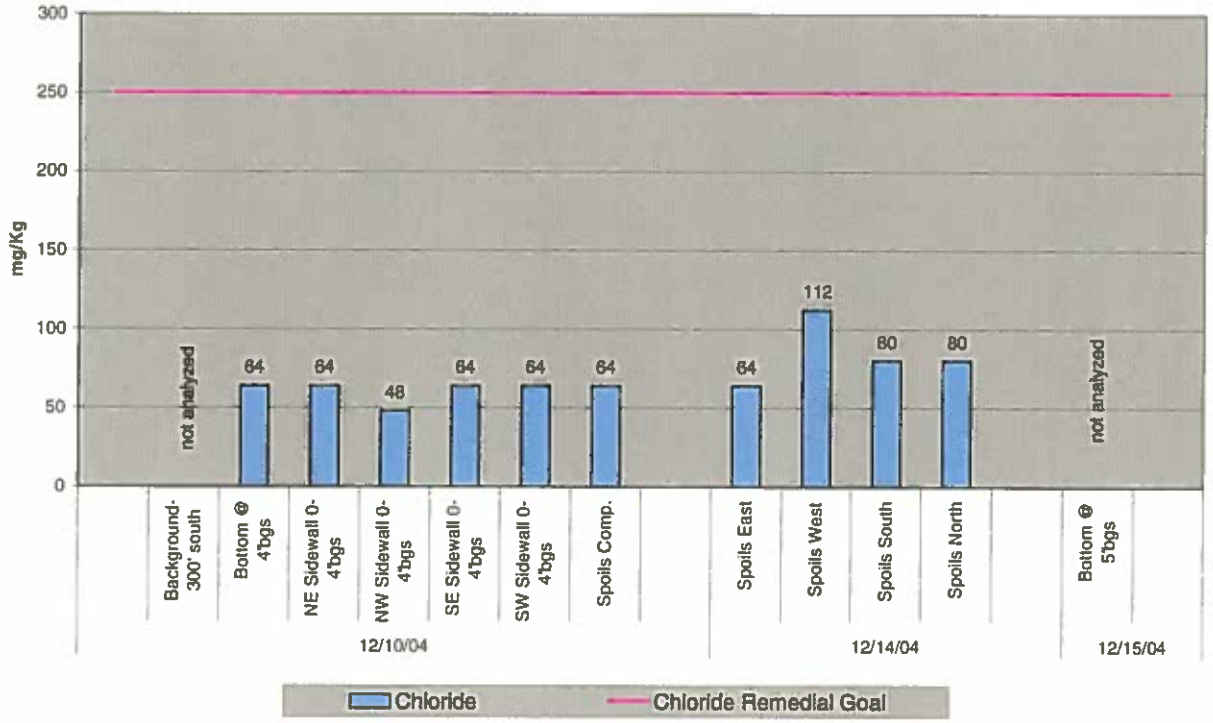
XTO Energy Inc.
New Mexico State C NCT2 #10
Benzene Delineation



XTO Energy Inc.
New Mexico State C NCT2 #10
Total Petroleum Hydrocarbon 8015M Delineation



XTO Energy Inc.
New Mexico State C NCT2 #10
Chloride Delineation



XTO ENERGY

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 12/10/04
Reporting Date: 12/14/04
Project Owner: XTO
Project Name: NEW MEXICO C NCT #2
Project Location: NOT GIVEN

Sampling Date: 12/10/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		12/13/04	12/13/04	12/13/04
H9389-1	SXTONMC121004SE	<10.0	16.2	64
H9389-2	SXTONMC121004NE	<10.0	<10.0	64
H9389-3	SXTONMC121004NBH	172	1190	64
H9389-4	SXTONMC121004NW	<10.0	<10.0	48
H9389-5	SXTONMC121004SW	<10.0	<10.0	64
H9389-6	SXTONMC121004SP	34.6	897	64
Quality Control		754	810	1000
True Value QC		800	800	1000
% Recovery		94.3	101	100
Relative Percent Difference		0.3	1.6	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Std. Methods 4500-Cl⁻B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

12/14/04
Date

H9389.XLS

XTO ENERGY

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 12/10/2004
Reporting Date: 12/14/2004
Project Number: XTO
Project Name: NEW MEXICO C NCT#2
Project Location: NOT GIVEN

Sampling Date: 12/10/2004
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: VB

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/13/04	12/13/04	12/13/04	12/13/04	12/13/04
H9389-1	SXTONMC121004SE	<0.002	<0.002	0.003	0.003	0.007
H9389-2	SXTONMC121004NE	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-3	SXTONMC121004NBH	0.011	0.373	0.460	0.708	2.15
H9389-4	SXTONMC121004NW	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-5	SXTONMC121004SW	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-6	SXTONMC121004SP	0.003	0.140	0.086	0.101	0.569
Quality Control		0.092	0.108	0.105	0.105	0.311
True Value QC		0.100	0.100	0.100	0.100	0.300
% Recovery		91.6	108	105	105	104
Relative Percent Difference		7.0	1.9	2.0	2.6	5.4

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt
Victor Blunt, Ph.D.

12/14/2004
Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

Company Name	XTO
Project Manager	Pat McCasland
Address	
City, State, Zip	
Phone#/Fax#	
Project #/Owner	XTO
Project Name	New Mexico C NCT #2
Project Location	
Sampler Name	Felix Hernandez

Bill To

ENVIRONMENTAL PLUS INC.

Analysis Request

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATE	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015Modified	Cl	SAR	EC	TDS
H9389-1	SXTONMC121004SE	C	1			X					X		12/10	9:00	X	X	X			
-2	SXTONMC121004NE	C	1			X					X		12/10	9:15	X	X	X			
-3	SXTONMC121004NBH	C	1			X					X		12/10	9:34	X	X	X			
-4	SXTONMC121004NW	C	1			X					X		12/10	9:52	X	X	X			
-5	SXTONMC121004SW	C	1			X					X		12/10	10:10	X	X	X			
-6	SXTONMC121004SP	C	1			X					X		12/10	10:22	X	X	X			

Sampler Relinquished: Felix Hernandez	13-Dec 12:00	Received By: Logan Boone	Fax results to Pat McCasland 505-394-2601
Relinquished by: Logan Boone	Date 12-10 Time 12:45	Received By: (lab staff)	Remarks
Delivered by Sampler	Sample Cool & Intact (Yes) No	Checked By:	

XTO ENERGY

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO:

Receiving Date: 12/14/04
Reporting Date: 12/15/04
Project Owner: XTO
Project Name: NEW MEXICO "C" NCT-2
Project Location: NOT GIVEN

Sampling Date: 12/14/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		12/14/04	12/14/04	12/15/04
H9399-1	STOCK PILE E.S.	70.7	1430	64
H9399-2	STOCK PILE W.S.	80.3	1370	112
H9399-3	STOCK PILE S.S.	59.0	1280	80
H9399-4	STOCK PILE N.S.	55.6	1082	80
Quality Control		810	792	1000
True Value QC		800	800	1000
% Recovery		101	98.9	100
Relative Percent Difference		4.0	1.6	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

12/15/04
Date

H9399A.XLS

XTO ENERGY

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 12/14/2004
Reporting Date: 12/16/2004
Project Number: XTO
Project Name: NEW MEXICO C NCT#2
Project Location: NOT GIVEN

Sampling Date: 12/14/2004
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: VB

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/16/04	12/16/04	12/16/04	12/16/04	12/16/04
H9399-1	STOCK PILE E.S	0.014	0.336	0.145	<0.002	0.918
H9399-2	STOCK PILE W.S	0.014	0.392	0.152	<0.002	1.19
H9399-3	STOCK PILE S.S	0.008	0.130	0.203	0.098	0.852
H9399-4	STOCK PILE N.S	0.015	0.294	0.109	0.080	0.978
Quality Control		0.086	0.0937	0.0895	0.0920	0.271
True Value QC		0.100	0.100	0.100	0.100	0.300
% Recovery		86.3	93.7	89.5	92.0	90.3
Relative Percent Difference		0.4	7.4	8.5	7.3	7.2

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt
Chemist

12/16/2004
Date

XTO ENERGY

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 (325) 673-7001 Fax (325) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	EPT	BILL TO P.O. #:	
Project Manager:	PAT MCCASLAND	Company:	
Address:	P.O. BOX 1558	Attn:	
City:	EUNICE State: NM Zip: 88231	Address:	
Phone #:	Fax #:	City:	
Project #:	XTO Project Owner:	State: Zip:	
Project Name:	NEW MEXICO "C" NCT-2	Phone #:	
Project Location:		Fax #:	
Sampler Name:			

ANALYSIS REQUEST: BTEX, SOLIDS, Cl

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H3396-1	STOCK PILE S.S					X							12/14/09	
-2	" " W.S					X								
-3	" " S.S					X								
-4	" " W.S					X								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No
	Time:		Fax Result: ☒ Yes ☐ No
Relinquished By:	Date: 12/14/09	Received By: (Lab Staff)	REMARKS:
	Time: 3:05		
Delivered By: (Circle One)	Sample Condition: Temp. °C: Cool	Intact? ☒ Yes ☐ No	Checked By: (Initials)
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

XTO ENERGY

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 12/15/04
Reporting Date: 12/16/04
Project Owner: XTO
Project Name: NEW MEXICO C NCT-2
Project Location: NOT GIVEN

Sampling Date: 12/15/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)
ANALYSIS DATE:		12/15/04	12/15/04
H9404-1	SXTO121504BHC	<10.0	<10.0
Quality Control		810	792
True Value QC		800	800
% Recovery		101	98.9
Relative Percent Difference		4.0	1.6

METHOD: SW-846 8015 M

Chemist

12/16/04
Date

H9404A.XLS

XTO ENERGY

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 12/15/2004
Reporting Date: 12/16/2004
Project Number: XTO
Project Name: NEW MEXICO C NCT # 2
Project Location: NOT GIVEN

Sampling Date: 12/15/2004
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: VB

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/16/04	12/16/04	12/16/04	12/16/04	12/16/04
H9404-1	SXTO121504BHC	<0.002	<0.002	<0.002	<0.002	<0.006
Quality Control		0.086	0.0937	0.0895	0.0920	0.271
True Value QC		0.100	0.100	0.100	0.100	0.300
% Accuracy		86.3	93.7	89.5	92.0	90.3
Relative Percent Difference		0.4	7.4	8.5	7.3	7.2

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt
Chemist

12/16/2004
Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

Company Name	XTO
Project Manager	Pat McCasland
Address	
City, State, Zip	
Phone#/Fax#	
Project #/Owner	XTO
Project Name	New Mexico C NCT #2
Project Location	
Sampler Name	Roger Boone

Bill To

ENVIRONMENTAL PLUS INC.

Analysis Request

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	BTEX 8021B	TPH 8015Modified	Cl	SAR	EC	TDS
H94404-1	SXTO121504BHC	C	1			X					X		12/15	10:30	X	X				

Sampler Relinquished: Roger Boone	12-15 11:51	Received By:	Fax results to Pat McCasland 505-394-2601
Relinquished by:	Date: 12/15/20 Time: 1:53	Received By: (Lab staff)	Remarks
Delivered by Sampler	Sample Cool & Intact: Yes / No	Checked By:	

Attachment B

NMOCD Email Correspondence Requesting Further Soil Sampling Copy dated April 26, 2018

From: Yu, Olivia, EMNRD
To: Donald, Patricia; "Mann, Ryan"
Cc: Williams, Luke
Subject: RE: New Mexico State C NCT2 #10
Date: Thursday, April 26, 2018 3:10:00 PM
Attachments: reviewed_1RP5027_SUBMITTED Final Report with Final C-141.pdf

Ms. Donald:

Notes:

- NMOCD database indicates State surface and mineral ownership with the additional notation that Section is under the CCA Conservation agreement.
- As the incident was not assigned a 1RP at the time of the release, 1RP-5027 is currently designated for documentation.

NMOCD appreciates XTO's efforts in finding this report for work completed in 2005. However, the final C-141 is not accepted. Please address the following concerns.

1. The provided map did not indicate sample locations. Are there any records of where sidewalls and bottom were taken? Aerial imagery from 2005 suggest that the impacted area is larger than outlined on the map.
2. As written, the release area on the caliche pad North of the tank battery was removed to 1 ft. bgs, were confirmation samples taken?
3. Were any samples collected for the release area inside the berms, adjacent to the release point?
4. Photo documentation seem to indicate that the laboratory results were for samples from the impacted pasture area. What was the depth of removal? The one bottom sample was from 5 ft. bgs. Was the entire impacted pasture area removed to 5 ft. bgs?

NMSLO may have additional comments or concerns.

Thanks,
Olivia

From: McDaniel, James <James_McDaniel@xtoenergy.com>
Sent: Thursday, December 21, 2017 8:57 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Williams, Luke <Luke_Williams@xtoenergy.com>
Subject: New Mexico State C NCT2 #10

James McDaniel
EH&S Supervisor
CHMM #15676
CSP #30009
XTO Energy Inc.

382 Road 3100
Aztec, New Mexico 87410
Phone: 505.333.3701 | Mobile: 505.787.0519
james_mcdaniel@xtoenergy.com

An ExxonMobil Subsidiary

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, December 20, 2017 1:02 PM
To: McDaniel, James
Cc: Williams, Luke
Subject: electronic copies of reports

Mr. McDaniel:

For the reports dropped off at the NMOCD-Hobbs office today, please submit them in electronic format as well. I do not work with paper copies.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

Attachment C

Site Plan & Soil Sampling Diagram

XTO - New Mexico C State NCT-2 #010 (1RP-5027)

Location: 32.560940, -103.284386
Date of Imagery: November 2, 2017
Source of Imagery: Google Earth

Legend

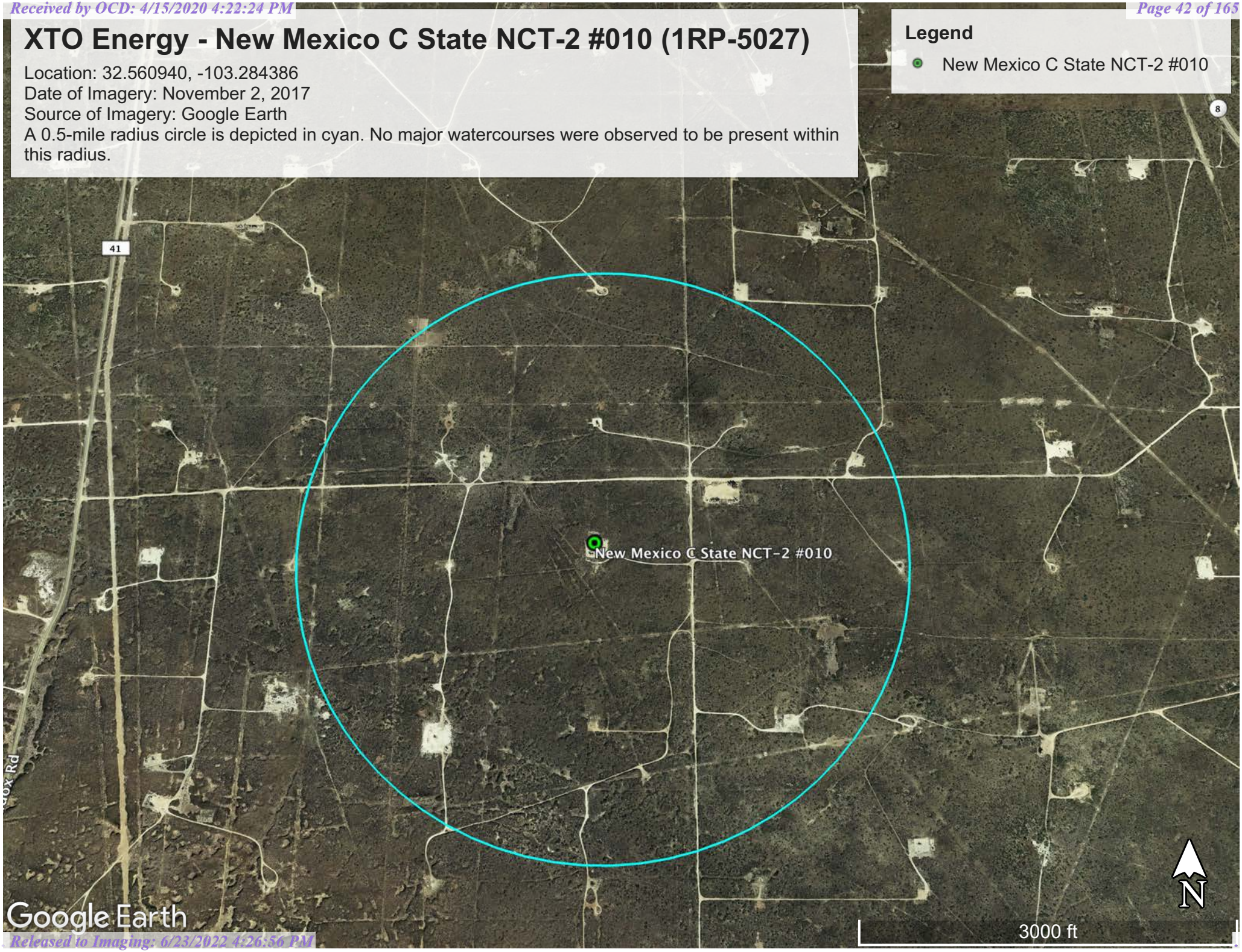
- Confirmation Samples at the Well Pad
- Confirmation Samples in the Pasture Area
- New Mexico C State NCT-2 #010

Attachment D

0.5-Mile Radius Map
Demonstrating Absence of Major Watercourses

XTO Energy - New Mexico C State NCT-2 #010 (1RP-5027)

Location: 32.560940, -103.284386
Date of Imagery: November 2, 2017
Source of Imagery: Google Earth
A 0.5-mile radius circle is depicted in cyan. No major watercourses were observed to be present within this radius.



Attachment E

Groundwater Depth Data

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	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 04410	L	LE	Shallow	4	2	19	20S	37E	661070	3603856*	56	05/25/1966	05/25/1966	06/02/1966	84	35	ABBOTT JR, MURRELL	46
L 02450	L	LE	Shallow	2	2	19	20S	37E	661063	3604259*	346	12/23/1953	12/23/1953	01/04/1954	70	35		46
L 04410 S	L	LE	Shallow	4	1	2	19	20S	37E	660760	3604152*	387	02/21/1972	02/23/1972	02/28/1972	100	35	ABBOTT, MURRELL	46

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 661064.78 **Northing (Y):** 3603912.34 **Radius:** 804

***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
	L 02450	2	2		19	20S	37E	661063	3604259*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date:	12/23/1953	**Drill Finish Date:**	12/23/1953	**Plug Date:**	
Log File Date:	01/04/1954	**PCW Rcv Date:**	01/04/1954	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.63	**Depth Well:**	70 feet	**Depth Water:**	35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	35	70	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	35	70

***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
	L 04410 S	4	1	2	19	20S	37E	660760	3604152*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY
Driller Name: ABBOTT, MURRELL

Drill Start Date:	02/21/1972	**Drill Finish Date:**	02/23/1972	**Plug Date:**	
Log File Date:	02/28/1972	**PCW Rcv Date:**	02/01/1973	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	90	**Estimated Yield:**	
Casing Size:	11.75	**Depth Well:**	100 feet	**Depth Water:**	35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	35	75	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	5
	5	17
	17	35
	35	75
	75	100

***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
	L 04410	4	2		19	20S	37E	661070	3603856*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT JR, MURRELL				
Drill Start Date:	05/25/1966	**Drill Finish Date:**	05/25/1966	**Plug Date:**	
Log File Date:	06/02/1966	**PCW Rcv Date:**	05/08/1968	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**	262	**Estimated Yield:**	
Casing Size:	11.75	**Depth Well:**	84 feet	**Depth Water:**	35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	35	66	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	30
	30	35
	35	66
	66	70
	70	84

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

Attachment F

Waste Manifests

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 531902

LEASE OPERATOR/SHIPPER/COMPANY: XTO	DATE: 10 16 19
LEASE NAME: NCT 2 #010	TIME: 1 25 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 311
TRANSPORTER COMPANY: Tom's Trucking	PHONE:
GENERATOR COMPANY MAN'S NAME: Allen Dupont	PHONE:

CHARGE TO: XTO

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content: _____

[ ] Solids [X] Contaminated Soil [ ] Jet Out

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 10 : [ ] _____

RRC or API # **C-133#** N.M.

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Tommy (SIGNATURE)

FACILITY REPRESENTATIVE: _____ (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004b

Attachment G

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: 490-161842-1
TestAmerica SDG: XTO Historical Release Site Characterization
Client Project/Site: New Mexico C State NCT-2 #010

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

Attn: Debi Sport Moore

Jennifer Gambill

Authorized for release by:
10/31/2018 1:06:31 PM

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

Table of Contents

Sample Summary

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Solid	10/22/18 12:35	10/24/18 09:45
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Solid	10/22/18 12:35	10/24/18 09:45
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Solid	10/22/18 12:50	10/24/18 09:45
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Solid	10/22/18 13:15	10/24/18 09:45

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Job ID: 490-161842-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-161842-1

Comments
No additional comments.

Receipt
The samples were received on 10/24/2018 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA
Method(s) 8260B: Surrogate recovery for the following sample was outside the upper control limit: NCT-CP-CS1-001 (0-1' bgs) (490-161842-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Internal standard (ISTD) response for 1,4-dichlorobenzene-d4 in the following samples was outside of acceptance limits: NCT-CP-CS1-001 (0-1' bgs) (490-161842-1). None of the compounds reported in the sample are associated with this ISTD; therefore, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The following sample was diluted to bring the concentration of target analytes within the calibration range: NCT-CP-CS3-001 (5' bgs) (490-161842-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

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: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-CP-CS1-001 (0-1' bgs)

Date Collected: 10/22/18 12:35
Date Received: 10/24/18 09:45

Lab Sample ID: 490-161842-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00196	0.000658	mg/Kg		10/24/18 14:18	10/25/18 01:31	1
Ethylbenzene	ND		0.00196	0.000658	mg/Kg		10/24/18 14:18	10/25/18 01:31	1
Toluene	ND		0.00196	0.000727	mg/Kg		10/24/18 14:18	10/25/18 01:31	1
Xylenes, Total	ND		0.00589	0.00121	mg/Kg		10/24/18 14:18	10/25/18 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:31*	*1*
4-Bromofluorobenzene (Surr)	*144*	** X*	*70 - 130*	*10/24/18 14:18*	*10/25/18 01:31*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:31*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.80	2.40	mg/Kg		10/24/18 14:18	10/25/18 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*50 - 150*	*10/24/18 14:18*	*10/25/18 18:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**175**		4.95	2.48	mg/Kg		10/24/18 15:10	10/25/18 16:05	1
MRO (C28-C35)	**96.4**		9.91	4.95	mg/Kg		10/24/18 15:10	10/27/18 13:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*55*		*50 - 150*	*10/24/18 15:10*	*10/25/18 16:05*	*1*

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-CP-CS2-001 (1'-2' bgs)

Date Collected: 10/22/18 12:35
Date Received: 10/24/18 09:45

Lab Sample ID: 490-161842-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00191	0.000641	mg/Kg		10/24/18 14:18	10/25/18 01:59	1
Ethylbenzene	ND		0.00191	0.000641	mg/Kg		10/24/18 14:18	10/25/18 01:59	1
Toluene	ND		0.00191	0.000707	mg/Kg		10/24/18 14:18	10/25/18 01:59	1
Xylenes, Total	ND		0.00574	0.00118	mg/Kg		10/24/18 14:18	10/25/18 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*10/24/18 14:18*	*10/25/18 01:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.42	2.21	mg/Kg		10/24/18 14:18	10/25/18 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*50 - 150*	*10/24/18 14:18*	*10/25/18 14:28*	*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		4.91	2.45	mg/Kg		10/24/18 15:10	10/25/18 16:22	1
MRO (C28-C35)	**5.80**		4.91	2.45	mg/Kg		10/24/18 15:10	10/27/18 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*50 - 150*	*10/24/18 15:10*	*10/25/18 16:22*	*1*

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-CP-CS3-001 (5' bgs)

Date Collected: 10/22/18 12:50
Date Received: 10/24/18 09:45

Lab Sample ID: 490-161842-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00188	0.000631	mg/Kg		10/24/18 14:18	10/25/18 02:27	1
Ethylbenzene	ND		0.00188	0.000631	mg/Kg		10/24/18 14:18	10/25/18 02:27	1
Toluene	ND		0.00188	0.000697	mg/Kg		10/24/18 14:18	10/25/18 02:27	1
Xylenes, Total	ND		0.00565	0.00116	mg/Kg		10/24/18 14:18	10/25/18 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:27*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.91	2.46	mg/Kg		10/24/18 14:18	10/25/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*50 - 150*	*10/24/18 14:18*	*10/25/18 14:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**		9.93	4.97	mg/Kg		10/26/18 16:04	10/28/18 21:47	2
MRO (C28-C35)	**124**		9.93	4.97	mg/Kg		10/26/18 16:04	10/28/18 21:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*67*		*50 - 150*	*10/26/18 16:04*	*10/28/18 21:47*	*2*

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-IC-CS1-001 (2'-3' bgs)

Date Collected: 10/22/18 13:15
Date Received: 10/24/18 09:45

Lab Sample ID: 490-161842-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00179	0.000599	mg/Kg		10/24/18 14:18	10/25/18 02:55	1
Ethylbenzene	ND		0.00179	0.000599	mg/Kg		10/24/18 14:18	10/25/18 02:55	1
Toluene	ND		0.00179	0.000662	mg/Kg		10/24/18 14:18	10/25/18 02:55	1
Xylenes, Total	ND		0.00537	0.00110	mg/Kg		10/24/18 14:18	10/25/18 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:55*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/24/18 14:18*	*10/25/18 02:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.59	2.29	mg/Kg		10/24/18 14:18	10/25/18 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*50 - 150*	*10/24/18 14:18*	*10/25/18 15:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.0**		4.84	2.42	mg/Kg		10/26/18 16:04	10/28/18 22:04	1
MRO (C28-C35)	**14.2**		4.84	2.42	mg/Kg		10/26/18 16:04	10/28/18 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*60*		*50 - 150*	*10/26/18 16:04*	*10/28/18 22:04*	*1*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

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

Lab Sample ID: 490-161859-A-6-E MS
Matrix: Solid
Analysis Batch: 552518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 552418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00162	J	0.0450	0.04858		mg/Kg		104	21 - 150
Ethylbenzene	ND		0.0450	0.04583		mg/Kg		102	10 - 150
Toluene	0.00120	J	0.0450	0.04762		mg/Kg		103	17 - 150
Xylenes, Total	ND		0.0899	0.09187		mg/Kg		102	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 490-161859-A-6-F MSD
Matrix: Solid
Analysis Batch: 552518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 552418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00162	J	0.0479	0.04781		mg/Kg		96	21 - 150	2	50
Ethylbenzene	ND		0.0479	0.04459		mg/Kg		93	10 - 150	3	50
Toluene	0.00120	J	0.0479	0.04622		mg/Kg		94	17 - 150	3	50
Xylenes, Total	ND		0.0958	0.08867		mg/Kg		93	10 - 150	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 490-552518/7
Matrix: Solid
Analysis Batch: 552518

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			10/25/18 00:35	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			10/25/18 00:35	1
Toluene	ND		0.00200	0.000740	mg/Kg			10/25/18 00:35	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			10/25/18 00:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*10/25/18 00:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/25/18 00:35*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/25/18 00:35*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/25/18 00:35*	*1*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

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

Lab Sample ID: LCS 490-552518/3
Matrix: Solid
Analysis Batch: 552518

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	0.05052		mg/Kg		101	70 - 130
Ethylbenzene	0.0500	0.04787		mg/Kg		96	70 - 130
Toluene	0.0500	0.04868		mg/Kg		97	70 - 130
Xylenes, Total	0.100	0.09630		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-552518/4
Matrix: Solid
Analysis Batch: 552518

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	0.04788		mg/Kg		96	70 - 130	5	37
Ethylbenzene	0.0500	0.04512		mg/Kg		90	70 - 130	6	38
Toluene	0.0500	0.04659		mg/Kg		93	70 - 130	4	40
Xylenes, Total	0.100	0.08981		mg/Kg		90	70 - 130	7	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 490-552396/1-A
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552396

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		10/24/18 12:27	10/25/18 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*10/24/18 12:27*	*10/25/18 13:58*	*1*

Lab Sample ID: LCS 490-552396/2-A
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	500	429.9		mg/Kg		86	70 - 130

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

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

Lab Sample ID: LCS 490-552396/2-A
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552396

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	87		50 - 150

Lab Sample ID: LCSD 490-552396/3-A
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 552396

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			500	429.7		mg/Kg		86	70 - 130	0	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	88		50 - 150

Lab Sample ID: 490-161842-2 MS
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: NCT-CP-CS2-001 (1'-2' bgs)
Prep Type: Total/NA
Prep Batch: 552396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	ND		442	389.0		mg/Kg		88	56 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene	87		50 - 150

Lab Sample ID: 490-161842-2 MSD
Matrix: Solid
Analysis Batch: 552667

Client Sample ID: NCT-CP-CS2-001 (1'-2' bgs)
Prep Type: Total/NA
Prep Batch: 552396

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		442	383.2		mg/Kg		87	56 - 130	2	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	87		50 - 150

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

Lab Sample ID: MB 490-553008/1-A
Matrix: Solid
Analysis Batch: 553227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553008

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		10/26/18 11:42	10/27/18 16:17	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		10/26/18 11:42	10/27/18 16:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		50 - 150	10/26/18 11:42	10/27/18 16:17	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

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

Lab Sample ID: LCS 490-553008/2-A
Matrix: Solid
Analysis Batch: 553227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553008

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			40.0	39.02		mg/Kg		98	54 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*87*		*50 - 150*

Lab Sample ID: 490-161943-A-1-F MS
Matrix: Solid
Analysis Batch: 553227

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 553008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	3.33	J	39.8	40.06		mg/Kg		92	10 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*85*		*50 - 150*

Lab Sample ID: 490-161943-A-1-G MSD
Matrix: Solid
Analysis Batch: 553227

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 553008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.33	J	39.6	38.46		mg/Kg		89	10 - 142	4	47

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*86*		*50 - 150*

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

GC/MS VOA

Prep Batch: 552418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	5030B	
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	5030B	
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	5030B	
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	5030B	
490-161859-A-6-E MS	Matrix Spike	Total/NA	Solid	5030B	
490-161859-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 552518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	8260B	552418
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8260B	552418
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	8260B	552418
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	8260B	552418
MB 490-552518/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-552518/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-552518/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-161859-A-6-E MS	Matrix Spike	Total/NA	Solid	8260B	552418
490-161859-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	552418

GC VOA

Prep Batch: 552396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	5030B	
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	5030B	
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	5030B	
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	5030B	
MB 490-552396/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 490-552396/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 490-552396/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
490-161842-2 MS	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	5030B	
490-161842-2 MSD	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	5030B	

Analysis Batch: 552667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	8015B	552396
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8015B	552396
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	8015B	552396
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	8015B	552396
MB 490-552396/1-A	Method Blank	Total/NA	Solid	8015B	552396
LCS 490-552396/2-A	Lab Control Sample	Total/NA	Solid	8015B	552396
LCSD 490-552396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	552396
490-161842-2 MS	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8015B	552396
490-161842-2 MSD	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8015B	552396

GC Semi VOA

Prep Batch: 551989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	3550C	

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

GC Semi VOA (Continued)

Prep Batch: 551989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	3550C	

Analysis Batch: 552652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	8015B	551989
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8015B	551989

Prep Batch: 553008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	3550C	
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	3550C	
MB 490-553008/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-553008/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-161943-A-1-F MS	Matrix Spike	Total/NA	Solid	3550C	
490-161943-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 553223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-1	NCT-CP-CS1-001 (0-1' bgs)	Total/NA	Solid	8015B	551989
490-161842-2	NCT-CP-CS2-001 (1'-2' bgs)	Total/NA	Solid	8015B	551989

Analysis Batch: 553227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-553008/1-A	Method Blank	Total/NA	Solid	8015B	553008
LCS 490-553008/2-A	Lab Control Sample	Total/NA	Solid	8015B	553008
490-161943-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B	553008
490-161943-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	553008

Analysis Batch: 553354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-161842-3	NCT-CP-CS3-001 (5' bgs)	Total/NA	Solid	8015B	553008
490-161842-4	NCT-IC-CS1-001 (2'-3' bgs)	Total/NA	Solid	8015B	553008

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-CP-CS1-001 (0-1' bgs)

Lab Sample ID: 490-161842-1
Matrix: Solid
Date Collected: 10/22/18 12:35
Date Received: 10/24/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.09 g	5.0 mL	552418	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	552518	10/25/18 01:31	AK1	TAL NSH
Total/NA	Prep	5030B			5.21 g	5.0 mL	552396	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	552667	10/25/18 18:56	S1S	TAL NSH
Total/NA	Prep	3550C			25.23 g	1.00 mL	551989	10/24/18 15:10	MBV	TAL NSH
Total/NA	Analysis	8015B		1			552652	10/25/18 16:05	S1S	TAL NSH
Total/NA	Prep	3550C			25.23 g	1.00 mL	551989	10/24/18 15:10	MBV	TAL NSH
Total/NA	Analysis	8015B		2			553223	10/27/18 13:47	GMH	TAL NSH

Client Sample ID: NCT-CP-CS2-001 (1'-2' bgs)

Lab Sample ID: 490-161842-2
Matrix: Solid
Date Collected: 10/22/18 12:35
Date Received: 10/24/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.23 g	5.0 mL	552418	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	552518	10/25/18 01:59	AK1	TAL NSH
Total/NA	Prep	5030B			5.66 g	5.0 mL	552396	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	552667	10/25/18 14:28	S1S	TAL NSH
Total/NA	Prep	3550C			25.46 g	1.00 mL	551989	10/24/18 15:10	MBV	TAL NSH
Total/NA	Analysis	8015B		1			552652	10/25/18 16:22	S1S	TAL NSH
Total/NA	Prep	3550C			25.46 g	1.00 mL	551989	10/24/18 15:10	MBV	TAL NSH
Total/NA	Analysis	8015B		1			553223	10/27/18 14:04	GMH	TAL NSH

Client Sample ID: NCT-CP-CS3-001 (5' bgs)

Lab Sample ID: 490-161842-3
Matrix: Solid
Date Collected: 10/22/18 12:50
Date Received: 10/24/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.31 g	5.0 mL	552418	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	552518	10/25/18 02:27	AK1	TAL NSH
Total/NA	Prep	5030B			5.09 g	5.0 mL	552396	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	552667	10/25/18 14:58	S1S	TAL NSH
Total/NA	Prep	3550C			25.17 g	1.00 mL	553008	10/26/18 16:04	MBV	TAL NSH
Total/NA	Analysis	8015B		2			553354	10/28/18 21:47	LOJ	TAL NSH

Client Sample ID: NCT-IC-CS1-001 (2'-3' bgs)

Lab Sample ID: 490-161842-4
Matrix: Solid
Date Collected: 10/22/18 13:15
Date Received: 10/24/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.59 g	5.0 mL	552418	10/24/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	552518	10/25/18 02:55	AK1	TAL NSH
Total/NA	Prep	5030B			5.45 g	5.0 mL	552396	10/24/18 14:18	JLP	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site Characterization

Client Sample ID: NCT-IC-CS1-001 (2'-3' bgs)

Date Collected: 10/22/18 13:15
Date Received: 10/24/18 09:45

Lab Sample ID: 490-161842-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	552667	10/25/18 15:28	S1S	TAL NSH
Total/NA	Prep	3550C			25.81 g	1.00 mL	553008	10/26/18 16:04	MBV	TAL NSH
Total/NA	Analysis	8015B		1			553354	10/28/18 22:04	LOJ	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: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site 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
3550C	Ultrasonic Extraction	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

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: New Mexico C State NCT-2 #010

TestAmerica Job ID: 490-161842-1
SDG: XTO Historical Release Site 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

490-161842 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 10/24/2018 @ 9:45

Time Samples Removed From Cooler 1401 Time Samples Placed In Storage 1407 (2 Hour Window)

1. Tracking # 8099 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 1.2 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) GH

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) GH

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? GH YES...NO...NA

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

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

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 of
Company: Sport Environmental Services LLC				Job #:
Address: 502 N Big Spring St	Due Date Requested: 7 day TAT			
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 Site Characteri	TestAmerica Project #: 49014499			
Site: New Mexico C State NCT-2 #010	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL; B - NaOH; C - Zn Aceta; D - Nitric Aci; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbi; I - Ice; J - DI Wate; K - EDTA; L - EDA; Other:

Loc: 490
161842

Sample Identification	Sample Date	Sample Time (TX)	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/Note
Preservation Code:							N	N	N	N		
NCT-CP-CS1-ØØ1 (Ø-1' bgs)	10-22-18	1235	G	Solid				X	X	X		
NCT-CP-CS2-ØØ1 (1'-2' bgs)	10-22-18	1235	G	Solid				X	X	X		
NCT-CP-CS3-ØØ1 (5' bgs)	10-22-18	1250	G	Solid				X	X	X		
NCT-IC-CS1-ØØ1 (2'-3' bgs)	10-22-18	1315	G	Solid				X	X	X		
				Solid								
Location NCT-IC-CS1				Solid								
32.56080°, -103.28452°				Solid								
Location NCT-CP-CS (caliche pad				Solid								
confirmation sample) - GPS in				Solid								
field notes				Solid								
32.56084°, -103.28451°				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
Debra S. Moore	10-23-18 1435 hrs	Sport Env Svcs		10-24-18 / 0945	TA-NAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.2

Ver: 08/04/2016

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 490-176570-1
Laboratory SDG: NM C State NCT - 2 #010 (1RP-5027)
Client Project/Site: XTO Energy

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

Attn: Debi Sport Moore

Jennifer Gambill

Authorized for release by:
7/11/2019 4:26:21 PM

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

Table of Contents

Sample Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
490-176570-1	BG-001 @ 0-1'bgs	Solid	06/26/19 10:14	06/29/19 08:50	
490-176570-2	BG-001 @ 5'bgs	Solid	06/26/19 10:18	06/29/19 08:50	
490-176570-3	BG-001 @ 10'bgs	Solid	06/26/19 10:19	06/29/19 08:50	
490-176570-4	BG-001 @ 15'bgs	Solid	06/26/19 10:20	06/29/19 08:50	
490-176570-5	BG-001 @ 20'bgs	Solid	06/26/19 10:21	06/29/19 08:50	
490-176570-6	SB1-002 @ 0-1'bgs	Solid	06/26/19 10:34	06/29/19 08:50	
490-176570-7	SB1-002 @ 5'bgs	Solid	06/26/19 10:35	06/29/19 08:50	
490-176570-8	SB1-002 @ 10'bgs	Solid	06/26/19 10:36	06/29/19 08:50	
490-176570-9	SB1-002 @ 15'bgs	Solid	06/26/19 10:37	06/29/19 08:50	
490-176570-10	SB1-002 @ 20'bgs	Solid	06/26/19 10:38	06/29/19 08:50	
490-176570-11	SB2-001 @ 0-1'bgs	Solid	06/26/19 10:42	06/29/19 08:50	
490-176570-12	SB2-001 @ 5'bgs	Solid	06/26/19 10:43	06/29/19 08:50	
490-176570-13	SB2-001 @ 10'bgs	Solid	06/26/19 10:44	06/29/19 08:50	
490-176570-14	SB2-001 @ 15'bgs	Solid	06/26/19 10:45	06/29/19 08:50	
490-176570-15	SB2-001 @ 20'bgs	Solid	06/26/19 10:46	06/29/19 08:50	
490-176570-16	SB3-001 @ 0-1'bgs	Solid	06/26/19 10:50	06/29/19 08:50	
490-176570-17	SB3-001 @ 5'bgs	Solid	06/26/19 10:51	06/29/19 08:50	
490-176570-18	SB3-001 @ 10'bgs	Solid	06/26/19 10:52	06/29/19 08:50	
490-176570-19	SB3-001 @ 15'bgs	Solid	06/26/19 10:53	06/29/19 08:50	
490-176570-20	SB3-001 @ 20'bgs	Solid	06/26/19 10:54	06/29/19 08:50	

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Job ID: 490-176570-1

Laboratory: Eurofins TestAmerica, Nashville

Narrative

Job Narrative
490-176570-1

Comments
No additional comments.

Receipt
The samples were received on 6/29/2019 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-604929.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The method blank for 490-605571 contained Diesel Range Organics [C10-C28] and MRO (C28-C35) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Sport Environmental Services LLC Job ID: 490-176570-1
Project/Site: XTO Energy SDG: NM C State NCT - 2 #010 (1RP-5027)

Qualifiers

GC/MS 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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 0-1'bgs

Date Collected: 06/26/19 10:14
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00187	0.000627	mg/Kg		07/01/19 12:13	07/03/19 03:12	1
Ethylbenzene	ND		0.00187	0.000627	mg/Kg		07/01/19 12:13	07/03/19 03:12	1
Toluene	ND		0.00187	0.000693	mg/Kg		07/01/19 12:13	07/03/19 03:12	1
Xylenes, Total	ND		0.00562	0.00115	mg/Kg		07/01/19 12:13	07/03/19 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:12*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:12*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.24	2.12	mg/Kg		07/01/19 12:13	07/02/19 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*74*		*50 - 150*	*07/01/19 12:13*	*07/02/19 22:31*	*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		4.91	2.45	mg/Kg		07/08/19 16:41	07/10/19 19:10	1
MRO (C28-C35)	**3.60**	**J B**	4.91	2.45	mg/Kg		07/08/19 16:41	07/10/19 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*92*		*50 - 150*	*07/08/19 16:41*	*07/10/19 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.07	mg/Kg			07/04/19 14:12	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 5'bgs

Date Collected: 06/26/19 10:18
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000609	mg/Kg		07/01/19 12:13	07/03/19 03:42	1
Ethylbenzene	ND		0.00182	0.000609	mg/Kg		07/01/19 12:13	07/03/19 03:42	1
Toluene	ND		0.00182	0.000673	mg/Kg		07/01/19 12:13	07/03/19 03:42	1
Xylenes, Total	ND		0.00545	0.00112	mg/Kg		07/01/19 12:13	07/03/19 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:42*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:42*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.52	2.26	mg/Kg		07/01/19 12:13	07/03/19 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*07/01/19 12:13*	*07/03/19 00:13*	*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		4.83	2.41	mg/Kg		07/08/19 16:41	07/10/19 19:28	1
MRO (C28-C35)	**3.10**	**J B**	4.83	2.41	mg/Kg		07/08/19 16:41	07/10/19 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*100*		*50 - 150*	*07/08/19 16:41*	*07/10/19 19:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.95	6.97	mg/Kg			07/04/19 14:28	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 10'bgs

Date Collected: 06/26/19 10:19
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00190	0.000638	mg/Kg		07/01/19 12:13	07/03/19 04:11	1
Ethylbenzene	ND		0.00190	0.000638	mg/Kg		07/01/19 12:13	07/03/19 04:11	1
Toluene	ND		0.00190	0.000705	mg/Kg		07/01/19 12:13	07/03/19 04:11	1
Xylenes, Total	ND		0.00571	0.00117	mg/Kg		07/01/19 12:13	07/03/19 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:11*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:11*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.83	2.41	mg/Kg		07/01/19 12:13	07/03/19 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*50 - 150*	*07/01/19 12:13*	*07/03/19 00:47*	*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	2.47	mg/Kg		07/08/19 16:41	07/10/19 19:46	1
MRO (C28-C35)	**2.92**	**J B**	4.93	2.47	mg/Kg		07/08/19 16:41	07/10/19 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 150*	*07/08/19 16:41*	*07/10/19 19:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.8**		9.94	6.96	mg/Kg			07/04/19 14:45	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 15'bgs

Date Collected: 06/26/19 10:20
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000611	mg/Kg		07/01/19 12:13	07/03/19 04:41	1
Ethylbenzene	ND		0.00182	0.000611	mg/Kg		07/01/19 12:13	07/03/19 04:41	1
Toluene	ND		0.00182	0.000675	mg/Kg		07/01/19 12:13	07/03/19 04:41	1
Xylenes, Total	ND		0.00547	0.00112	mg/Kg		07/01/19 12:13	07/03/19 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:41*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:41*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.73	2.36	mg/Kg		07/01/19 12:13	07/03/19 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*07/01/19 12:13*	*07/03/19 01:21*	*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	2.47	mg/Kg		07/08/19 16:41	07/10/19 20:04	1
MRO (C28-C35)	**2.99**	**J B**	4.93	2.47	mg/Kg		07/08/19 16:41	07/10/19 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*100*		*50 - 150*	*07/08/19 16:41*	*07/10/19 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.6**		10.1	7.10	mg/Kg			07/04/19 15:01	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 20'bgs

Date Collected: 06/26/19 10:21
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00179	0.000598	mg/Kg		07/01/19 12:13	07/03/19 05:11	1
Ethylbenzene	ND		0.00179	0.000598	mg/Kg		07/01/19 12:13	07/03/19 05:11	1
Toluene	ND		0.00179	0.000661	mg/Kg		07/01/19 12:13	07/03/19 05:11	1
Xylenes, Total	ND		0.00536	0.00110	mg/Kg		07/01/19 12:13	07/03/19 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:11*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:11*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:11*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.67	2.34	mg/Kg		07/01/19 12:13	07/03/19 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*07/01/19 12:13*	*07/03/19 01:55*	*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		07/08/19 16:41	07/10/19 20:22	1
MRO (C28-C35)	**2.81**	**J B**	4.95	2.48	mg/Kg		07/08/19 16:41	07/10/19 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 150*	*07/08/19 16:41*	*07/10/19 20:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.7**		10.1	7.05	mg/Kg			07/04/19 15:18	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 0-1'bgs

Date Collected: 06/26/19 10:34
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000669	mg/Kg		07/01/19 12:13	07/03/19 05:41	1
Ethylbenzene	ND		0.00200	0.000669	mg/Kg		07/01/19 12:13	07/03/19 05:41	1
Toluene	ND		0.00200	0.000739	mg/Kg		07/01/19 12:13	07/03/19 05:41	1
Xylenes, Total	ND		0.00599	0.00123	mg/Kg		07/01/19 12:13	07/03/19 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:41*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:41*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.71	2.35	mg/Kg		07/01/19 12:13	07/03/19 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*74*		*50 - 150*	*07/01/19 12:13*	*07/03/19 02:29*	*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		4.99	2.50	mg/Kg		07/08/19 16:41	07/10/19 20:40	1
MRO (C28-C35)	ND		4.99	2.50	mg/Kg		07/08/19 16:41	07/10/19 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*91*		*50 - 150*	*07/08/19 16:41*	*07/10/19 20:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.08	mg/Kg			07/04/19 15:35	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 5'bgs

Date Collected: 06/26/19 10:35
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000611	mg/Kg		07/01/19 12:13	07/03/19 06:11	1
Ethylbenzene	ND		0.00182	0.000611	mg/Kg		07/01/19 12:13	07/03/19 06:11	1
Toluene	ND		0.00182	0.000675	mg/Kg		07/01/19 12:13	07/03/19 06:11	1
Xylenes, Total	ND		0.00547	0.00112	mg/Kg		07/01/19 12:13	07/03/19 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:11*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:11*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.94	2.47	mg/Kg		07/01/19 12:13	07/03/19 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*07/01/19 12:13*	*07/03/19 03:03*	*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		4.97	2.48	mg/Kg		07/08/19 16:41	07/10/19 20:59	1
MRO (C28-C35)	**2.82**	**J B**	4.97	2.48	mg/Kg		07/08/19 16:41	07/10/19 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*50 - 150*	*07/08/19 16:41*	*07/10/19 20:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.0**		9.97	6.98	mg/Kg			07/08/19 17:01	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 10'bgs

Date Collected: 06/26/19 10:36
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00190	0.000636	mg/Kg		07/01/19 12:13	07/03/19 06:41	1
Ethylbenzene	ND		0.00190	0.000636	mg/Kg		07/01/19 12:13	07/03/19 06:41	1
Toluene	ND		0.00190	0.000702	mg/Kg		07/01/19 12:13	07/03/19 06:41	1
Xylenes, Total	ND		0.00569	0.00117	mg/Kg		07/01/19 12:13	07/03/19 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:41*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 06:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.45	2.22	mg/Kg		07/01/19 12:13	07/03/19 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*79*		*50 - 150*	*07/01/19 12:13*	*07/03/19 03:37*	*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		4.88	2.44	mg/Kg		07/08/19 17:20	07/10/19 22:06	1
MRO (C28-C35)	ND		4.88	2.44	mg/Kg		07/08/19 17:20	07/10/19 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*85*		*50 - 150*	*07/08/19 17:20*	*07/10/19 22:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.01	mg/Kg			07/08/19 17:17	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 15'bgs

Date Collected: 06/26/19 10:37
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00198	0.000662	mg/Kg		07/01/19 12:13	07/03/19 02:42	1
Ethylbenzene	ND		0.00198	0.000662	mg/Kg		07/01/19 12:13	07/03/19 02:42	1
Toluene	ND		0.00198	0.000731	mg/Kg		07/01/19 12:13	07/03/19 02:42	1
Xylenes, Total	ND		0.00593	0.00122	mg/Kg		07/01/19 12:13	07/03/19 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 02:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 02:42*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 02:42*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*07/01/19 12:13*	*07/03/19 02:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.00	2.50	mg/Kg		07/01/19 12:13	07/03/19 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*07/01/19 12:13*	*07/03/19 04:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.71**	**J**	4.97	2.49	mg/Kg		07/08/19 17:20	07/10/19 23:35	1
MRO (C28-C35)	**3.27**	**J**	4.97	2.49	mg/Kg		07/08/19 17:20	07/10/19 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 150*	*07/08/19 17:20*	*07/10/19 23:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.05	mg/Kg			07/08/19 17:34	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 20'bgs

Date Collected: 06/26/19 10:38
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00190	0.000637	mg/Kg		07/01/19 12:13	07/03/19 07:11	1
Ethylbenzene	ND		0.00190	0.000637	mg/Kg		07/01/19 12:13	07/03/19 07:11	1
Toluene	ND		0.00190	0.000703	mg/Kg		07/01/19 12:13	07/03/19 07:11	1
Xylenes, Total	ND		0.00570	0.00117	mg/Kg		07/01/19 12:13	07/03/19 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:11*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:11*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.60	2.30	mg/Kg		07/01/19 12:13	07/03/19 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*07/01/19 12:13*	*07/03/19 04:45*	*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		4.86	2.43	mg/Kg		07/08/19 17:20	07/10/19 23:53	1
MRO (C28-C35)	ND		4.86	2.43	mg/Kg		07/08/19 17:20	07/10/19 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*50 - 150*	*07/08/19 17:20*	*07/10/19 23:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.05	mg/Kg			07/08/19 17:51	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 0-1'bgs

Date Collected: 06/26/19 10:42
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00186	0.000623	mg/Kg		07/01/19 12:13	07/03/19 07:41	1
Ethylbenzene	ND		0.00186	0.000623	mg/Kg		07/01/19 12:13	07/03/19 07:41	1
Toluene	ND		0.00186	0.000688	mg/Kg		07/01/19 12:13	07/03/19 07:41	1
Xylenes, Total	ND		0.00558	0.00114	mg/Kg		07/01/19 12:13	07/03/19 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:41*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:41*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*07/01/19 12:13*	*07/03/19 07:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.19	2.10	mg/Kg		07/01/19 12:13	07/03/19 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*79*		*50 - 150*	*07/01/19 12:13*	*07/03/19 05:19*	*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		4.99	2.50	mg/Kg		07/08/19 17:20	07/11/19 00:11	1
MRO (C28-C35)	**5.10**		4.99	2.50	mg/Kg		07/08/19 17:20	07/11/19 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*87*		*50 - 150*	*07/08/19 17:20*	*07/11/19 00:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.00	mg/Kg			07/08/19 18:07	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 5'bgs

Date Collected: 06/26/19 10:43
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-12

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		07/01/19 12:13	07/03/19 08:11	1
Ethylbenzene	ND		0.00199	0.000667	mg/Kg		07/01/19 12:13	07/03/19 08:11	1
Toluene	ND		0.00199	0.000737	mg/Kg		07/01/19 12:13	07/03/19 08:11	1
Xylenes, Total	ND		0.00598	0.00123	mg/Kg		07/01/19 12:13	07/03/19 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:11*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.47	2.24	mg/Kg		07/01/19 12:13	07/03/19 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*07/01/19 12:13*	*07/03/19 05:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.27**		4.92	2.46	mg/Kg		07/08/19 17:20	07/11/19 00:29	1
MRO (C28-C35)	**10.2**		4.92	2.46	mg/Kg		07/08/19 17:20	07/11/19 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*92*		*50 - 150*	*07/08/19 17:20*	*07/11/19 00:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.01	mg/Kg			07/08/19 18:24	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 10'bgs
Date Collected: 06/26/19 10:44
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00190	0.000637	mg/Kg		07/01/19 12:13	07/03/19 08:41	1
Ethylbenzene	ND		0.00190	0.000637	mg/Kg		07/01/19 12:13	07/03/19 08:41	1
Toluene	ND		0.00190	0.000703	mg/Kg		07/01/19 12:13	07/03/19 08:41	1
Xylenes, Total	ND		0.00570	0.00117	mg/Kg		07/01/19 12:13	07/03/19 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:41*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 08:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.50	2.25	mg/Kg		07/01/19 12:13	07/03/19 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*74*		*50 - 150*	*07/01/19 12:13*	*07/03/19 06:28*	*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		4.85	2.43	mg/Kg		07/08/19 17:20	07/11/19 00:47	1
MRO (C28-C35)	ND		4.85	2.43	mg/Kg		07/08/19 17:20	07/11/19 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*50 - 150*	*07/08/19 17:20*	*07/11/19 00:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.02	mg/Kg			07/08/19 19:13	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 15'bgs

Date Collected: 06/26/19 10:45
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00196	0.000657	mg/Kg		07/01/19 12:13	07/03/19 09:11	1
Ethylbenzene	ND		0.00196	0.000657	mg/Kg		07/01/19 12:13	07/03/19 09:11	1
Toluene	ND		0.00196	0.000725	mg/Kg		07/01/19 12:13	07/03/19 09:11	1
Xylenes, Total	ND		0.00588	0.00121	mg/Kg		07/01/19 12:13	07/03/19 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:11*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.80	2.40	mg/Kg		07/01/19 12:13	07/03/19 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*07/01/19 12:13*	*07/03/19 07:02*	*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		4.92	2.46	mg/Kg		07/08/19 17:20	07/11/19 01:04	1
MRO (C28-C35)	ND		4.92	2.46	mg/Kg		07/08/19 17:20	07/11/19 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 150*	*07/08/19 17:20*	*07/11/19 01:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.87	6.91	mg/Kg			07/08/19 19:30	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 20'bgs

Date Collected: 06/26/19 10:46
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00179	0.000598	mg/Kg		07/01/19 12:13	07/03/19 09:41	1
Ethylbenzene	ND		0.00179	0.000598	mg/Kg		07/01/19 12:13	07/03/19 09:41	1
Toluene	ND		0.00179	0.000661	mg/Kg		07/01/19 12:13	07/03/19 09:41	1
Xylenes, Total	ND		0.00536	0.00110	mg/Kg		07/01/19 12:13	07/03/19 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:41*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 09:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.94	2.47	mg/Kg		07/01/19 12:13	07/03/19 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*50 - 150*	*07/01/19 12:13*	*07/03/19 07:36*	*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		07/08/19 17:20	07/11/19 01:22	1
MRO (C28-C35)	ND		4.95	2.48	mg/Kg		07/08/19 17:20	07/11/19 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*50 - 150*	*07/08/19 17:20*	*07/11/19 01:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.2	7.12	mg/Kg			07/08/19 19:47	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 0-1'bgs
Date Collected: 06/26/19 10:50
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00178	0.000597	mg/Kg		07/01/19 12:13	07/03/19 03:40	1
Ethylbenzene	ND		0.00178	0.000597	mg/Kg		07/01/19 12:13	07/03/19 03:40	1
Toluene	**0.00102**	**J**	0.00189	0.000699	mg/Kg		07/03/19 12:58	07/03/19 15:51	1
Xylenes, Total	ND		0.00535	0.00110	mg/Kg		07/01/19 12:13	07/03/19 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*07/03/19 12:58*	*07/03/19 15:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:40*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/03/19 12:58*	*07/03/19 15:51*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:40*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*07/03/19 12:58*	*07/03/19 15:51*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 03:40*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*07/03/19 12:58*	*07/03/19 15:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.71	2.35	mg/Kg		07/01/19 12:13	07/03/19 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*75*		*50 - 150*	*07/01/19 12:13*	*07/03/19 08:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.70**		4.93	2.47	mg/Kg		07/08/19 17:20	07/11/19 01:40	1
MRO (C28-C35)	**17.6**		4.93	2.47	mg/Kg		07/08/19 17:20	07/11/19 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*91*		*50 - 150*	*07/08/19 17:20*	*07/11/19 01:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.90	6.93	mg/Kg			07/08/19 20:03	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 5'bgs

Date Collected: 06/26/19 10:51
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00175	0.000585	mg/Kg		07/01/19 12:13	07/03/19 04:09	1
Ethylbenzene	ND		0.00175	0.000585	mg/Kg		07/01/19 12:13	07/03/19 04:09	1
Toluene	ND		0.00175	0.000646	mg/Kg		07/01/19 12:13	07/03/19 04:09	1
Xylenes, Total	ND		0.00524	0.00107	mg/Kg		07/01/19 12:13	07/03/19 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:09*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.39	2.20	mg/Kg		07/01/19 12:13	07/03/19 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*75*		*50 - 150*	*07/01/19 12:13*	*07/03/19 08:44*	*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		4.88	2.44	mg/Kg		07/08/19 17:20	07/11/19 01:58	1
MRO (C28-C35)	**3.21**	**J**	4.88	2.44	mg/Kg		07/08/19 17:20	07/11/19 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*50 - 150*	*07/08/19 17:20*	*07/11/19 01:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.00	mg/Kg			07/08/19 20:20	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 10'bgs

Date Collected: 06/26/19 10:52
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-18

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000609	mg/Kg		07/01/19 12:13	07/03/19 04:38	1
Ethylbenzene	ND		0.00182	0.000609	mg/Kg		07/01/19 12:13	07/03/19 04:38	1
Toluene	ND		0.00182	0.000673	mg/Kg		07/01/19 12:13	07/03/19 04:38	1
Xylenes, Total	ND		0.00545	0.00112	mg/Kg		07/01/19 12:13	07/03/19 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*07/01/19 12:13*	*07/03/19 04:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.82	2.41	mg/Kg		07/01/19 12:13	07/03/19 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*75*		*50 - 150*	*07/01/19 12:13*	*07/03/19 09:18*	*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		07/08/19 17:20	07/11/19 02:16	1
MRO (C28-C35)	**2.76**	**J**	4.95	2.48	mg/Kg		07/08/19 17:20	07/11/19 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*50 - 150*	*07/08/19 17:20*	*07/11/19 02:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.88	6.92	mg/Kg			07/08/19 20:36	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 15'bgs

Date Collected: 06/26/19 10:53
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00192	0.000643	mg/Kg		07/01/19 12:13	07/03/19 05:07	1
Ethylbenzene	ND		0.00192	0.000643	mg/Kg		07/01/19 12:13	07/03/19 05:07	1
Toluene	ND		0.00192	0.000710	mg/Kg		07/01/19 12:13	07/03/19 05:07	1
Xylenes, Total	ND		0.00576	0.00118	mg/Kg		07/01/19 12:13	07/03/19 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:07*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:07*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.80	2.40	mg/Kg		07/01/19 12:13	07/03/19 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*07/01/19 12:13*	*07/03/19 09:52*	*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		5.00	2.50	mg/Kg		07/08/19 17:20	07/11/19 02:33	1
MRO (C28-C35)	**3.09**	**J**	5.00	2.50	mg/Kg		07/08/19 17:20	07/11/19 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*50 - 150*	*07/08/19 17:20*	*07/11/19 02:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.09**	**J**	10.0	7.02	mg/Kg			07/08/19 20:53	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 20'bgs

Date Collected: 06/26/19 10:54
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000669	mg/Kg		07/01/19 12:13	07/03/19 05:35	1
Ethylbenzene	ND		0.00200	0.000669	mg/Kg		07/01/19 12:13	07/03/19 05:35	1
Toluene	ND		0.00200	0.000739	mg/Kg		07/01/19 12:13	07/03/19 05:35	1
Xylenes, Total	ND		0.00599	0.00123	mg/Kg		07/01/19 12:13	07/03/19 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:35*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:35*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*07/01/19 12:13*	*07/03/19 05:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.60	2.30	mg/Kg		07/01/19 12:13	07/03/19 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*07/01/19 12:13*	*07/03/19 10:26*	*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		4.91	2.46	mg/Kg		07/08/19 17:20	07/11/19 02:51	1
MRO (C28-C35)	ND		4.91	2.46	mg/Kg		07/08/19 17:20	07/11/19 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*50 - 150*	*07/08/19 17:20*	*07/11/19 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.97	6.98	mg/Kg			07/08/19 21:09	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: 490-176570-9 MS
Matrix: Solid
Analysis Batch: 604853

Client Sample ID: SB1-002 @ 15'bgs
Prep Type: Total/NA
Prep Batch: 604587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0468	0.03624		mg/Kg		77	21 - 150
Ethylbenzene	ND		0.0468	0.03611		mg/Kg		77	10 - 150
Toluene	ND		0.0468	0.03895		mg/Kg		83	17 - 150
Xylenes, Total	ND		0.0936	0.06985		mg/Kg		75	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: 490-176570-9 MSD
Matrix: Solid
Analysis Batch: 604853

Client Sample ID: SB1-002 @ 15'bgs
Prep Type: Total/NA
Prep Batch: 604587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0479	0.03746		mg/Kg		78	21 - 150	3	50
Ethylbenzene	ND		0.0479	0.04003		mg/Kg		84	10 - 150	10	50
Toluene	ND		0.0479	0.04130		mg/Kg		86	17 - 150	6	50
Xylenes, Total	ND		0.0958	0.07446		mg/Kg		78	10 - 150	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 490-604848/6
Matrix: Solid
Analysis Batch: 604848

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			07/02/19 21:56	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/02/19 21:56	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/02/19 21:56	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			07/02/19 21:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*07/02/19 21:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/02/19 21:56*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/02/19 21:56*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/02/19 21:56*	*1*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: LCS 490-604848/3
Matrix: Solid
Analysis Batch: 604848

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	0.05181		mg/Kg		104	70 - 130		
Ethylbenzene			0.0500	0.05403		mg/Kg		108	70 - 130		
Toluene			0.0500	0.05410		mg/Kg		108	70 - 130		
Xylenes, Total			0.100	0.1093		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-604848/4
Matrix: Solid
Analysis Batch: 604848

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	0.05217		mg/Kg		104	70 - 130	1	37
Ethylbenzene			0.0500	0.05442		mg/Kg		109	70 - 130	1	38
Toluene			0.0500	0.05401		mg/Kg		108	70 - 130	0	40
Xylenes, Total			0.100	0.1097		mg/Kg		110	70 - 130	0	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 490-604853/6
Matrix: Solid
Analysis Batch: 604853

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			07/03/19 02:12	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/03/19 02:12	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/03/19 02:12	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			07/03/19 02:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*07/03/19 02:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/03/19 02:12*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/03/19 02:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/03/19 02:12*	*1*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: LCS 490-604853/4
Matrix: Solid
Analysis Batch: 604853

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	0.04494		mg/Kg		90	70 - 130		
Ethylbenzene			0.0500	0.04325		mg/Kg		86	70 - 130		
Toluene			0.0500	0.04715		mg/Kg		94	70 - 130		
Xylenes, Total			0.100	0.08922		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 490-604929/7
Matrix: Solid
Analysis Batch: 604929

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			07/03/19 14:20	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/03/19 14:20	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/03/19 14:20	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			07/03/19 14:20	1

Lab Sample ID: LCS 490-604929/3
Matrix: Solid
Analysis Batch: 604929

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	0.04539		mg/Kg		91	70 - 130		
Ethylbenzene			0.0500	0.04371		mg/Kg		87	70 - 130		
Toluene			0.0500	0.04562		mg/Kg		91	70 - 130		
Xylenes, Total			0.100	0.08448		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-604929/4
Matrix: Solid
Analysis Batch: 604929

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	0.04479		mg/Kg		90	70 - 130	1	37
Ethylbenzene			0.0500	0.04462		mg/Kg		89	70 - 130	2	38
Toluene			0.0500	0.04803		mg/Kg		96	70 - 130	5	40
Xylenes, Total			0.100	0.08750		mg/Kg		88	70 - 130	4	38

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: LCSD 490-604929/4
Matrix: Solid
Analysis Batch: 604929

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	106		70 - 130

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

Lab Sample ID: MB 490-604585/1-A
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604585

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		07/01/19 12:11	07/02/19 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150	07/01/19 12:11	07/02/19 21:56	1

Lab Sample ID: LCS 490-604585/2-A
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			500	505.6		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	89		50 - 150

Lab Sample ID: LCSD 490-604585/3-A
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604585

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			500	518.6		mg/Kg		104	70 - 130	3	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	90		50 - 150

Lab Sample ID: 490-176570-1 MS
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: BG-001 @ 0-1'bgs
Prep Type: Total/NA
Prep Batch: 604585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		424	415.0		mg/Kg		98	56 - 130		

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: 490-176570-1 MS
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: BG-001 @ 0-1'bgs
Prep Type: Total/NA
Prep Batch: 604585

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene	*88*		*50 - 150*

Lab Sample ID: 490-176570-1 MSD
Matrix: Solid
Analysis Batch: 604677

Client Sample ID: BG-001 @ 0-1'bgs
Prep Type: Total/NA
Prep Batch: 604585

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		424	381.5		mg/Kg		90	56 - 130	8	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	*86*		*50 - 150*

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

Lab Sample ID: MB 490-605571/1-A
Matrix: Solid
Analysis Batch: 605873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.543	J	5.00	2.50	mg/Kg		07/08/19 16:41	07/10/19 13:21	1
MRO (C28-C35)	2.791	J	5.00	2.50	mg/Kg		07/08/19 16:41	07/10/19 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*107*		*50 - 150*	*07/08/19 16:41*	*07/10/19 13:21*	*1*

Lab Sample ID: LCS 490-605571/2-A
Matrix: Solid
Analysis Batch: 605873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605571

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			40.0	41.86		mg/Kg		105	54 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	*95*		*50 - 150*

Lab Sample ID: 490-176569-A-8-F MS
Matrix: Solid
Analysis Batch: 605873

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 605571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2.81	J B	40.0	32.94		mg/Kg		75	10 - 142		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	*68*		*50 - 150*

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: 490-176569-A-8-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 605873 — **Prep Batch: 605571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.81	J B	39.6	36.95		mg/Kg		86	10 - 142	11	47

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*76*		*50 - 150*

Lab Sample ID: MB 490-605574/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 605868 — **Prep Batch: 605574**

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		07/08/19 17:20	07/10/19 21:30	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		07/08/19 17:20	07/10/19 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*50 - 150*	*07/08/19 17:20*	*07/10/19 21:30*	*1*

Lab Sample ID: LCS 490-605574/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 605868 — **Prep Batch: 605574**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	40.0	40.69		mg/Kg		102	54 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*50 - 150*

Lab Sample ID: 490-176570-8 MS — **Client Sample ID: SB1-002 @ 10'bgs**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 605868 — **Prep Batch: 605574**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		39.3	42.08		mg/Kg		107	10 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*50 - 150*

Lab Sample ID: 490-176570-8 MSD — **Client Sample ID: SB1-002 @ 10'bgs**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 605868 — **Prep Batch: 605574**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		38.5	41.01		mg/Kg		107	10 - 142	3	47

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Lab Sample ID: 490-176570-8 MSD
Matrix: Solid
Analysis Batch: 605868

Client Sample ID: SB1-002 @ 10'bgs
Prep Type: Total/NA
Prep Batch: 605574

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	92		50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-605001/1-A
Matrix: Solid
Analysis Batch: 605114

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.94	6.96	mg/Kg			07/04/19 08:24	1

Lab Sample ID: LCS 490-605001/2-A
Matrix: Solid
Analysis Batch: 605114

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.75		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 490-605001/3-A
Matrix: Solid
Analysis Batch: 605114

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	99.76		mg/Kg					

Lab Sample ID: 490-176475-E-19-B MS
Matrix: Solid
Analysis Batch: 605114

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		98.6	97.59		mg/Kg		99	80 - 120

Lab Sample ID: 490-176475-E-19-C MSD
Matrix: Solid
Analysis Batch: 605114

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		98.8	98.38		mg/Kg		100	80 - 120	1	20

Lab Sample ID: MB 490-605255/1-A
Matrix: Solid
Analysis Batch: 605525

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.07	mg/Kg			07/08/19 14:32	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-605255/2-A
Matrix: Solid
Analysis Batch: 605525

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			101	101.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 490-605255/3-A
Matrix: Solid
Analysis Batch: 605525

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			101	100.7		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 490-176553-A-1-E MS
Matrix: Solid
Analysis Batch: 605525

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	ND		99.6	97.04		mg/Kg		97	80 - 120		

Lab Sample ID: 490-176553-A-1-F MSD
Matrix: Solid
Analysis Batch: 605525

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		99.6	99.04		mg/Kg		99	80 - 120	2	20

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

GC/MS VOA

Prep Batch: 604587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-9 MS	SB1-002 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-9 MSD	SB1-002 @ 15'bgs	Total/NA	Solid	5030B	

Analysis Batch: 604848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	8260B	604587
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	8260B	604587
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	8260B	604587
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	8260B	604587
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	8260B	604587
MB 490-604848/6	Method Blank	Total/NA	Solid	8260B	
LCS 490-604848/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-604848/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 604853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	8260B	604587
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	8260B	604587
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	8260B	604587
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	8260B	604587
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	8260B	604587
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	8260B	604587
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	8260B	604587
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	8260B	604587
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	8260B	604587
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	8260B	604587
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	8260B	604587
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	8260B	604587
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	8260B	604587
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	8260B	604587
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	8260B	604587

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

GC/MS VOA (Continued)

Analysis Batch: 604853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-604853/6	Method Blank	Total/NA	Solid	8260B	
LCS 490-604853/4	Lab Control Sample	Total/NA	Solid	8260B	
490-176570-9 MS	SB1-002 @ 15'bgs	Total/NA	Solid	8260B	604587
490-176570-9 MSD	SB1-002 @ 15'bgs	Total/NA	Solid	8260B	604587

Analysis Batch: 604929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	8260B	605003
MB 490-604929/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-604929/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-604929/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 605003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	5030B	

GC VOA

Prep Batch: 604585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	5030B	
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	5030B	
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	5030B	
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	5030B	
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	5030B	
MB 490-604585/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 490-604585/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 490-604585/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
490-176570-1 MS	BG-001 @ 0-1'bgs	Total/NA	Solid	5030B	
490-176570-1 MSD	BG-001 @ 0-1'bgs	Total/NA	Solid	5030B	

Analysis Batch: 604677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	8015B	604585
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	8015B	604585
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	8015B	604585

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

GC VOA (Continued)

Analysis Batch: 604677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	8015B	604585
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	8015B	604585
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	8015B	604585
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	8015B	604585
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	8015B	604585
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	8015B	604585
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	8015B	604585
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	8015B	604585
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	8015B	604585
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	8015B	604585
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	8015B	604585
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	8015B	604585
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	8015B	604585
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	8015B	604585
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	8015B	604585
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	8015B	604585
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	8015B	604585
MB 490-604585/1-A	Method Blank	Total/NA	Solid	8015B	604585
LCS 490-604585/2-A	Lab Control Sample	Total/NA	Solid	8015B	604585
LCSD 490-604585/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	604585
490-176570-1 MS	BG-001 @ 0-1'bgs	Total/NA	Solid	8015B	604585
490-176570-1 MSD	BG-001 @ 0-1'bgs	Total/NA	Solid	8015B	604585

GC Semi VOA

Prep Batch: 605571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	3550C	
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	3550C	
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	3550C	
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	3550C	
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	3550C	
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	3550C	
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	3550C	
MB 490-605571/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-605571/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-176569-A-8-F MS	Matrix Spike	Total/NA	Solid	3550C	
490-176569-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Prep Batch: 605574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	3550C	
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	3550C	
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	3550C	
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	3550C	
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	3550C	
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	3550C	
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	3550C	
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	3550C	
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	3550C	
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	3550C	

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

GC Semi VOA (Continued)

Prep Batch: 605574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	3550C	
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	3550C	
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	3550C	
MB 490-605574/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-605574/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-176570-8 MS	SB1-002 @ 10'bgs	Total/NA	Solid	3550C	
490-176570-8 MSD	SB1-002 @ 10'bgs	Total/NA	Solid	3550C	

Analysis Batch: 605868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-8	SB1-002 @ 10'bgs	Total/NA	Solid	8015B	605574
490-176570-9	SB1-002 @ 15'bgs	Total/NA	Solid	8015B	605574
490-176570-10	SB1-002 @ 20'bgs	Total/NA	Solid	8015B	605574
490-176570-11	SB2-001 @ 0-1'bgs	Total/NA	Solid	8015B	605574
490-176570-12	SB2-001 @ 5'bgs	Total/NA	Solid	8015B	605574
490-176570-13	SB2-001 @ 10'bgs	Total/NA	Solid	8015B	605574
490-176570-14	SB2-001 @ 15'bgs	Total/NA	Solid	8015B	605574
490-176570-15	SB2-001 @ 20'bgs	Total/NA	Solid	8015B	605574
490-176570-16	SB3-001 @ 0-1'bgs	Total/NA	Solid	8015B	605574
490-176570-17	SB3-001 @ 5'bgs	Total/NA	Solid	8015B	605574
490-176570-18	SB3-001 @ 10'bgs	Total/NA	Solid	8015B	605574
490-176570-19	SB3-001 @ 15'bgs	Total/NA	Solid	8015B	605574
490-176570-20	SB3-001 @ 20'bgs	Total/NA	Solid	8015B	605574
MB 490-605574/1-A	Method Blank	Total/NA	Solid	8015B	605574
LCS 490-605574/2-A	Lab Control Sample	Total/NA	Solid	8015B	605574
490-176570-8 MS	SB1-002 @ 10'bgs	Total/NA	Solid	8015B	605574
490-176570-8 MSD	SB1-002 @ 10'bgs	Total/NA	Solid	8015B	605574

Analysis Batch: 605873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Total/NA	Solid	8015B	605571
490-176570-2	BG-001 @ 5'bgs	Total/NA	Solid	8015B	605571
490-176570-3	BG-001 @ 10'bgs	Total/NA	Solid	8015B	605571
490-176570-4	BG-001 @ 15'bgs	Total/NA	Solid	8015B	605571
490-176570-5	BG-001 @ 20'bgs	Total/NA	Solid	8015B	605571
490-176570-6	SB1-002 @ 0-1'bgs	Total/NA	Solid	8015B	605571
490-176570-7	SB1-002 @ 5'bgs	Total/NA	Solid	8015B	605571
MB 490-605571/1-A	Method Blank	Total/NA	Solid	8015B	605571
LCS 490-605571/2-A	Lab Control Sample	Total/NA	Solid	8015B	605571
490-176569-A-8-F MS	Matrix Spike	Total/NA	Solid	8015B	605571
490-176569-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	605571

HPLC/IC

Leach Batch: 605001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-605001/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-605001/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-605001/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

HPLC/IC

Leach Batch: 605004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-176570-2	BG-001 @ 5'bgs	Soluble	Solid	DI Leach	
490-176570-3	BG-001 @ 10'bgs	Soluble	Solid	DI Leach	
490-176570-4	BG-001 @ 15'bgs	Soluble	Solid	DI Leach	
490-176570-5	BG-001 @ 20'bgs	Soluble	Solid	DI Leach	
490-176570-6	SB1-002 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-176475-E-19-B MS	Matrix Spike	Soluble	Solid	DI Leach	
490-176475-E-19-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 605114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-1	BG-001 @ 0-1'bgs	Soluble	Solid	300.0	605004
490-176570-2	BG-001 @ 5'bgs	Soluble	Solid	300.0	605004
490-176570-3	BG-001 @ 10'bgs	Soluble	Solid	300.0	605004
490-176570-4	BG-001 @ 15'bgs	Soluble	Solid	300.0	605004
490-176570-5	BG-001 @ 20'bgs	Soluble	Solid	300.0	605004
490-176570-6	SB1-002 @ 0-1'bgs	Soluble	Solid	300.0	605004
MB 490-605001/1-A	Method Blank	Soluble	Solid	300.0	605001
LCS 490-605001/2-A	Lab Control Sample	Soluble	Solid	300.0	605001
LCSD 490-605001/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	605001
490-176475-E-19-B MS	Matrix Spike	Soluble	Solid	300.0	605004
490-176475-E-19-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	605004

Leach Batch: 605255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-7	SB1-002 @ 5'bgs	Soluble	Solid	DI Leach	
490-176570-8	SB1-002 @ 10'bgs	Soluble	Solid	DI Leach	
490-176570-9	SB1-002 @ 15'bgs	Soluble	Solid	DI Leach	
490-176570-10	SB1-002 @ 20'bgs	Soluble	Solid	DI Leach	
490-176570-11	SB2-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-176570-12	SB2-001 @ 5'bgs	Soluble	Solid	DI Leach	
490-176570-13	SB2-001 @ 10'bgs	Soluble	Solid	DI Leach	
490-176570-14	SB2-001 @ 15'bgs	Soluble	Solid	DI Leach	
490-176570-15	SB2-001 @ 20'bgs	Soluble	Solid	DI Leach	
490-176570-16	SB3-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-176570-17	SB3-001 @ 5'bgs	Soluble	Solid	DI Leach	
490-176570-18	SB3-001 @ 10'bgs	Soluble	Solid	DI Leach	
490-176570-19	SB3-001 @ 15'bgs	Soluble	Solid	DI Leach	
490-176570-20	SB3-001 @ 20'bgs	Soluble	Solid	DI Leach	
MB 490-605255/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-605255/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-605255/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-176553-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
490-176553-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 605525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-7	SB1-002 @ 5'bgs	Soluble	Solid	300.0	605255
490-176570-8	SB1-002 @ 10'bgs	Soluble	Solid	300.0	605255
490-176570-9	SB1-002 @ 15'bgs	Soluble	Solid	300.0	605255
490-176570-10	SB1-002 @ 20'bgs	Soluble	Solid	300.0	605255

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

HPLC/IC (Continued)

Analysis Batch: 605525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-176570-11	SB2-001 @ 0-1'bgs	Soluble	Solid	300.0	605255
490-176570-12	SB2-001 @ 5'bgs	Soluble	Solid	300.0	605255
490-176570-13	SB2-001 @ 10'bgs	Soluble	Solid	300.0	605255
490-176570-14	SB2-001 @ 15'bgs	Soluble	Solid	300.0	605255
490-176570-15	SB2-001 @ 20'bgs	Soluble	Solid	300.0	605255
490-176570-16	SB3-001 @ 0-1'bgs	Soluble	Solid	300.0	605255
490-176570-17	SB3-001 @ 5'bgs	Soluble	Solid	300.0	605255
490-176570-18	SB3-001 @ 10'bgs	Soluble	Solid	300.0	605255
490-176570-19	SB3-001 @ 15'bgs	Soluble	Solid	300.0	605255
490-176570-20	SB3-001 @ 20'bgs	Soluble	Solid	300.0	605255
MB 490-605255/1-A	Method Blank	Soluble	Solid	300.0	605255
LCS 490-605255/2-A	Lab Control Sample	Soluble	Solid	300.0	605255
LCSD 490-605255/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	605255
490-176553-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	605255
490-176553-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	605255

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 0-1'bgs

Lab Sample ID: 490-176570-1
Matrix: Solid
Date Collected: 06/26/19 10:14
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.34 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 03:12	RP	TAL NSH
Total/NA	Prep	5030B			5.89 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/02/19 22:31	S1S	TAL NSH
Total/NA	Prep	3550C			25.47 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 19:10	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9698 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 14:12	SW1	TAL NSH

Client Sample ID: BG-001 @ 5'bgs

Lab Sample ID: 490-176570-2
Matrix: Solid
Date Collected: 06/26/19 10:18
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.50 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 03:42	RP	TAL NSH
Total/NA	Prep	5030B			5.53 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 00:13	S1S	TAL NSH
Total/NA	Prep	3550C			25.89 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 19:28	S1S	TAL NSH
Soluble	Leach	DI Leach			3.0140 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 14:28	SW1	TAL NSH

Client Sample ID: BG-001 @ 10'bgs

Lab Sample ID: 490-176570-3
Matrix: Solid
Date Collected: 06/26/19 10:19
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.25 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 04:11	RP	TAL NSH
Total/NA	Prep	5030B			5.18 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 00:47	S1S	TAL NSH
Total/NA	Prep	3550C			25.33 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 19:46	S1S	TAL NSH
Soluble	Leach	DI Leach			3.0184 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 14:45	SW1	TAL NSH

Client Sample ID: BG-001 @ 15'bgs

Lab Sample ID: 490-176570-4
Matrix: Solid
Date Collected: 06/26/19 10:20
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.48 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 04:41	RP	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: BG-001 @ 15'bgs

Lab Sample ID: 490-176570-4
Matrix: Solid
Date Collected: 06/26/19 10:20
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.29 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 01:21	S1S	TAL NSH
Total/NA	Prep	3550C			25.33 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 20:04	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9597 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 15:01	SW1	TAL NSH

Client Sample ID: BG-001 @ 20'bgs

Lab Sample ID: 490-176570-5
Matrix: Solid
Date Collected: 06/26/19 10:21
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.60 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 05:11	RP	TAL NSH
Total/NA	Prep	5030B			5.35 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 01:55	S1S	TAL NSH
Total/NA	Prep	3550C			25.23 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 20:22	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9773 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 15:18	SW1	TAL NSH

Client Sample ID: SB1-002 @ 0-1'bgs

Lab Sample ID: 490-176570-6
Matrix: Solid
Date Collected: 06/26/19 10:34
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 05:41	RP	TAL NSH
Total/NA	Prep	5030B			5.31 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 02:29	S1S	TAL NSH
Total/NA	Prep	3550C			25.03 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 20:40	S1S	TAL NSH
Soluble	Leach	DI Leach			2.9678 g	30 mL	605004	07/03/19 12:49	SOO	TAL NSH
Soluble	Analysis	300.0		1			605114	07/04/19 15:35	SW1	TAL NSH

Client Sample ID: SB1-002 @ 5'bgs

Lab Sample ID: 490-176570-7
Matrix: Solid
Date Collected: 06/26/19 10:35
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.48 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 06:11	RP	TAL NSH
Total/NA	Prep	5030B			5.06 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 03:03	S1S	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 5'bgs

Lab Sample ID: 490-176570-7
Date Collected: 06/26/19 10:35
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			25.17 g	1.00 mL	605571	07/08/19 16:41	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605873	07/10/19 20:59	S1S	TAL NSH
Soluble	Leach	DI Leach			3.0079 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 17:01	SOO	TAL NSH

Client Sample ID: SB1-002 @ 10'bgs

Lab Sample ID: 490-176570-8
Date Collected: 06/26/19 10:36
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.27 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 06:41	RP	TAL NSH
Total/NA	Prep	5030B			5.62 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 03:37	S1S	TAL NSH
Total/NA	Prep	3550C			25.62 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/10/19 22:06	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9938 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 17:17	SOO	TAL NSH

Client Sample ID: SB1-002 @ 15'bgs

Lab Sample ID: 490-176570-9
Date Collected: 06/26/19 10:37
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.06 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 02:42	RP	TAL NSH
Total/NA	Prep	5030B			5.00 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 04:11	S1S	TAL NSH
Total/NA	Prep	3550C			25.14 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/10/19 23:35	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9785 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 17:34	SOO	TAL NSH

Client Sample ID: SB1-002 @ 20'bgs

Lab Sample ID: 490-176570-10
Date Collected: 06/26/19 10:38
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.26 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 07:11	RP	TAL NSH
Total/NA	Prep	5030B			5.43 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 04:45	S1S	TAL NSH
Total/NA	Prep	3550C			25.71 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/10/19 23:53	AK1	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB1-002 @ 20'bgs

Lab Sample ID: 490-176570-10
Matrix: Solid
Date Collected: 06/26/19 10:38
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9775 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 17:51	SOO	TAL NSH

Client Sample ID: SB2-001 @ 0-1'bgs

Lab Sample ID: 490-176570-11
Matrix: Solid
Date Collected: 06/26/19 10:42
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.38 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 07:41	RP	TAL NSH
Total/NA	Prep	5030B			5.96 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 05:19	S1S	TAL NSH
Total/NA	Prep	3550C			25.04 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 00:11	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9997 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 18:07	SOO	TAL NSH

Client Sample ID: SB2-001 @ 5'bgs

Lab Sample ID: 490-176570-12
Matrix: Solid
Date Collected: 06/26/19 10:43
Date Received: 06/29/19 08:50

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	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 08:11	RP	TAL NSH
Total/NA	Prep	5030B			5.59 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 05:54	S1S	TAL NSH
Total/NA	Prep	3550C			25.43 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 00:29	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9970 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 18:24	SOO	TAL NSH

Client Sample ID: SB2-001 @ 10'bgs

Lab Sample ID: 490-176570-13
Matrix: Solid
Date Collected: 06/26/19 10:44
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.26 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 08:41	RP	TAL NSH
Total/NA	Prep	5030B			5.55 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 06:28	S1S	TAL NSH
Total/NA	Prep	3550C			25.75 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 00:47	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9905 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 19:13	SOO	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB2-001 @ 15'bgs

Lab Sample ID: 490-176570-14

Date Collected: 06/26/19 10:45
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.10 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 09:11	RP	TAL NSH
Total/NA	Prep	5030B			5.21 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 07:02	S1S	TAL NSH
Total/NA	Prep	3550C			25.42 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 01:04	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0407 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 19:30	SOO	TAL NSH

Client Sample ID: SB2-001 @ 20'bgs

Lab Sample ID: 490-176570-15

Date Collected: 06/26/19 10:46
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.60 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604853	07/03/19 09:41	RP	TAL NSH
Total/NA	Prep	5030B			5.06 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 07:36	S1S	TAL NSH
Total/NA	Prep	3550C			25.24 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 01:22	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9515 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 19:47	SOO	TAL NSH

Client Sample ID: SB3-001 @ 0-1'bgs

Lab Sample ID: 490-176570-16

Date Collected: 06/26/19 10:50
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.29 g	5.0 mL	605003	07/03/19 12:58	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604929	07/03/19 15:51	S1S	TAL NSH
Total/NA	Prep	5030B			5.61 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604848	07/03/19 03:40	P1B	TAL NSH
Total/NA	Prep	5030B			5.31 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 08:10	S1S	TAL NSH
Total/NA	Prep	3550C			25.34 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 01:40	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0309 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 20:03	SOO	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 5'bgs

Lab Sample ID: 490-176570-17
Date Collected: 06/26/19 10:51
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.73 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604848	07/03/19 04:09	P1B	TAL NSH
Total/NA	Prep	5030B			5.69 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 08:44	S1S	TAL NSH
Total/NA	Prep	3550C			25.63 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 01:58	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0014 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 20:20	SOO	TAL NSH

Client Sample ID: SB3-001 @ 10'bgs

Lab Sample ID: 490-176570-18
Date Collected: 06/26/19 10:52
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.50 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604848	07/03/19 04:38	P1B	TAL NSH
Total/NA	Prep	5030B			5.19 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 09:18	S1S	TAL NSH
Total/NA	Prep	3550C			25.24 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 02:16	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0353 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 20:36	SOO	TAL NSH

Client Sample ID: SB3-001 @ 15'bgs

Lab Sample ID: 490-176570-19
Date Collected: 06/26/19 10:53
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.21 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604848	07/03/19 05:07	P1B	TAL NSH
Total/NA	Prep	5030B			5.21 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 09:52	S1S	TAL NSH
Total/NA	Prep	3550C			25.01 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 02:33	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9922 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 20:53	SOO	TAL NSH

Client Sample ID: SB3-001 @ 20'bgs

Lab Sample ID: 490-176570-20
Date Collected: 06/26/19 10:54
Matrix: Solid
Date Received: 06/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5.0 mL	604587	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	604848	07/03/19 05:35	P1B	TAL NSH

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Client Sample ID: SB3-001 @ 20'bgs

Date Collected: 06/26/19 10:54
Date Received: 06/29/19 08:50

Lab Sample ID: 490-176570-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.44 g	5.0 mL	604585	07/01/19 12:13	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	604677	07/03/19 10:26	S1S	TAL NSH
Total/NA	Prep	3550C			25.44 g	1.00 mL	605574	07/08/19 17:20	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			605868	07/11/19 02:51	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0084 g	30 mL	605255	07/05/19 13:58	SOO	TAL NSH
Soluble	Analysis	300.0		1			605525	07/08/19 21:09	SOO	TAL NSH

Laboratory References:

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

Method Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

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

Accreditation/Certification Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Energy

Job ID: 490-176570-1
SDG: NM C State NCT - 2 #010 (1RP-5027)

Laboratory: Eurofins 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
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	09-30-19
Arizona	State Program	9	AZ0473	05-05-20
Arkansas DEQ	State Program	6	88-0737	04-25-20
California	State Program	9	2938	06-30-19 *
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-20
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	06-30-20
Illinois	NELAP	5	200010	12-09-19
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-20
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-20
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-20
Massachusetts	State Program	1	M-TN032	06-30-20
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19 *
Nevada	State Program	9	TN00032	07-31-19 *
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-20
New York	NELAP	2	11342	03-31-20
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19 *
Oklahoma	State Program	6	9412	08-31-19 *
Oregon	NELAP	10	TN200001	04-26-20
Pennsylvania	NELAP	3	68-00585	07-31-19 *
Rhode Island	State Program	1	LAO00268	12-30-19
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	04-10-20
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-20
Washington	State Program	10	C789	07-19-19 *
West Virginia DEP	State Program	3	219	02-28-20
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

490-176570 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 06-29-2019 @ 08:50

Time Samples Removed From Cooler 1525 Time Samples Placed In Storage 1530 (2 Hour Window)

1. Tracking # 6268 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 14740456 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 3.5 *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) GH

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) GH

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) GH

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) GH

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

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

7/11/2019

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Midland #264

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Debi Moore	Site Contact: Debi Moore	Date: ~~04/23/2019~~ 06/28/2019	COC No:
Sport Environmental Services, LLC	Tel/Fax: (432) 683-1100	Lab Contact: Jennifer Gambill	Carrier:	_____ of _____ COCs
502 N. Big Spring Street	**Analysis Turnaround Time**			Sampler: Clint Elliott
Midland, TX 79701	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
(432) 683-1100 Phone	TAT if different from Below _____			Walk-in Client:
(888) 500-0622 FAX	☐ 2 weeks			Lab Sampling:
Project Name: XTO Energy	☑ 1 week			
Site: NM C State NCT - 2 #010 (1RP-5027)	☐ 2 days			Job / SDG No.:
P O # Purchase Order Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	300_ORGFM_28D, 8015B_DRO, 8015B_GRO, 8260B	Chloride 300	Sample Specific Notes:
BG-001 @ 0-1'bgs	6/26/2019	1014	G	S	1			x	x	
BG-001 @ 5 'bgs	6/26/2019	1018	G	S	1			x	x	
BG-001 @10 'bgs	6/26/2019	1019	G	S	1			x	x	
BG-001 @15 'bgs	6/26/2019	1020	G	S	1			x	x	
BG-001 @20 'bgs	6/26/2019	1021	G	S	1			x	x	
SB1-002 @ 0-1'bgs	6/26/2019	1034	G	S	1			x	x	
SB1-002 @ 5 'bgs	6/26/2019	1035	G	S	1			x	x	
SB1-002 @10 'bgs	6/26/2019	1036	G	S	1			x	x	
SB1-002 @15 'bgs	6/26/2019	1037	G	S	1			x	x	
SB1-002 @20 'bgs	6/26/2019	1038	G	S	1			x	x	

Loc: 490
176570

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

3.5°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Sport Env	Date/Time: 6-28 1025	Received by:	Company: SES	Date/Time: 6-28-19 1025
Relinquished by:	Company: SES	Date/Time: 6-28	Received by:	Company: FT	Date/Time: 6-28-19 113
Relinquished by:	Company: FT	Date/Time: 6-28 1131	Received in Laboratory by:	Company: TA-NAS	Date/Time: 6-29-19 0850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Midland #264

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Debi Moore	Site Contact: Debi Moore	Date: ~~04/23/2019~~ 6/28/2019	COC No:
Sport Environmental Services, LLC	Tel/Fax: (432) 683-1100	Lab Contact: Jennifer Gambill	Carrier:	_____ of _____ COCs
502 N. Big Spring Street	**Analysis Turnaround Time**			Sampler: Clint Elliott
Midland, TX 79701	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
(432) 683-1100 Phone	TAT if different from Below _____			Walk-in Client:
(888) 500-0622 FAX	☐ 2 weeks			Lab Sampling:
Project Name: XTO Energy	☑ 1 week			
Site: NM C State NCT - 2 #010 (1RP-5027)	☐ 2 days			Job / SDG No.:
P O # Purchase Order Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	300_ORGFM_28D, 8015B_DRO, 8015B_GRO, 8260B	Chloride 300	Sample Specific Notes:
SB2-001 @ 0-1'bgs	6/26/2019	1042	G	S	1			x	x	
SB2-001 @ 5 'bgs	6/26/2019	1043	G	S	1			x	x	
SB2-001 @10 'bgs	6/26/2019	1044	G	S	1			x	x	
SB2-001 @15 'bgs	6/26/2019	1045	G	S	1			x	x	
SB2-001 @20 'bgs	6/26/2019	1046	G	S	1			x	x	
SB3-001 @ 0-1'bgs	6/26/2019	1050	G	S	1			x	x	
SB3-001 @ 5 'bgs	6/26/2019	1051	G	S	1			x	x	
SB3-001 @10 'bgs	6/26/2019	1052	G	S	1			x	x	
SB3-001 @15 'bgs	6/26/2019	1053	G	S	1			x	x	
SB3-001 @20 'bgs	6/26/2019	1054	G	S	1			x	x	

Loc: 490
176570

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3-5°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Sport Env	Date/Time: 6-28 1025	Received by:	Company: SES	Date/Time: 6-28 1025
Relinquished by:	Company: SES	Date/Time: 6-28 1025	Received by:	Company: TA	Date/Time: 6-28-19 113
Relinquished by:	Company: TA	Date/Time: 6-28 1121	Received in Laboratory by:	Company: TA-NAS	Date/Time: 6-29-19 0850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Certificate of Analysis Summary 640304

Sport Environmental Services, LLC, Midland, TX

Project Name: XTO Energy-NCT-2 #010

Project Id: NCT-2 #010 (1R-5027)
Contact: Debi Moore
Project Location:

Date Received in Lab: Thu 10.17.2019 13:47
Report Date: 10.21.2019 14:12
Project Manager: John Builes

Analysis Requested	*Lab Id:*	640304-001		640304-002		640304-003		640304-004		640304-005		640304-006	
	Field Id:	NCT-CP- NW @ 0-1'BG		NCT-CP- NW @ 5-6 'BG		NCT-CP- EF @ 6'BGS		NCT-CP- WW @ 0-1'BG		NCT-CP- WW @ 5-6' B		NCT-CP- SW @ 0-1'BG	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.16.2019 11:10		10.16.2019 11:32		10.16.2019 11:35		10.16.2019 11:09		10.16.2019 11:31		10.16.2019 11:07	
BTEX by SW 8260C SUB: T104704215-19-30	*Extracted:*	10.18.2019 14:00		10.18.2019 14:00		10.18.2019 14:00		10.18.2019 14:00		10.18.2019 14:00		10.18.2019 14:00	
	Analyzed:	10.18.2019 18:10		10.18.2019 18:32		10.18.2019 18:53		10.18.2019 19:14		10.18.2019 19:35		10.18.2019 19:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000208	0.00100	<0.000205	0.000990	<0.000207	0.00100	<0.000207	0.00100	<0.000207	0.00100	<0.000208	0.00100
Toluene		<0.00100	0.00502	<0.000990	0.00495	<0.00100	0.00501	<0.00100	0.00500	<0.00100	0.00501	<0.00100	0.00502
Ethylbenzene		<0.000337	0.00100	<0.000332	0.000990	<0.000336	0.00100	<0.000336	0.00100	<0.000336	0.00100	<0.000337	0.00100
m,p-Xylenes		<0.000438	0.00201	<0.000432	0.00198	<0.000438	0.00200	<0.000437	0.00200	<0.000438	0.00200	<0.000438	0.00201
o-Xylene		<0.000989	0.00100	<0.000975	0.000990	<0.000987	0.00100	<0.000985	0.00100	<0.000987	0.00100	<0.000989	0.00100
Total Xylenes		<0.000438	0.00100	<0.000432	0.000990	<0.000438	0.00100	<0.000437	0.00100	<0.000438	0.00100	<0.000438	0.00100
Total BTEX		<0.000208	0.00100	<0.000205	0.000990	<0.000207	0.00100	<0.000207	0.00100	<0.000207	0.00100	<0.000208	0.00100
Inorganic Anions by EPA 300	*Extracted:*	10.18.2019 10:15		10.18.2019 10:15		10.18.2019 10:15		10.18.2019 10:15		10.18.2019 10:15		10.18.2019 10:15	
	Analyzed:	10.18.2019 14:16		10.18.2019 14:46		10.18.2019 14:56		10.18.2019 15:06		10.18.2019 15:16		10.18.2019 15:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3.94 J	5.00	26.0	4.96	34.1	5.01	4.09 J	4.97	42.1	4.96	2.14 J	5.00
TPH by SW8015 Mod	*Extracted:*	10.18.2019 12:00		10.18.2019 12:00		10.18.2019 12:00		10.18.2019 12:00		10.18.2019 12:00		10.18.2019 12:00	
	Analyzed:	10.18.2019 18:15		10.18.2019 18:33		10.18.2019 18:52		10.18.2019 19:10		10.18.2019 19:28		10.18.2019 19:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<15.0	50.0	<15.0	49.9	<15.0	49.9	<14.9	49.8	<15.0	50.0	<15.0	49.9
Diesel Range Organics		<15.0	50.0	<15.0	49.9	<15.0	49.9	<14.9	49.8	<15.0	50.0	<15.0	49.9
Oil Range Hydrocarbons		<15.0	50.0	<15.0	49.9	<15.0	49.9	<14.9	49.8	<15.0	50.0	<15.0	49.9
Total TPH		<15.0	50.0	<15.0	49.9	<15.0	49.9	<14.9	49.8	<15.0	50.0	<15.0	49.9

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

John Builes
Project Manager

Certificate of Analysis Summary 640304

Sport Environmental Services, LLC, Midland, TX

Project Name: XTO Energy-NCT-2 #010

Project Id: NCT-2 #010 (1R-5027)
Contact: Debi Moore
Project Location:

Date Received in Lab: Thu 10.17.2019 13:47
Report Date: 10.21.2019 14:12
Project Manager: John Builes

Analysis Requested	*Lab Id:*	640304-007		640304-008		640304-009				
	Field Id:	NCT-CP- SW @ 5-6'BG		NCT-CP- EW @ 0-1'BG		NCT-CP- EW @ 5-6'BG				
	Depth:									
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	10.16.2019 11:33		10.16.2019 11:08		10.16.2019 11:30				
BTEX by SW 8260C	*Extracted:*	10.18.2019 14:00		10.18.2019 14:00		10.18.2019 14:00				
SUB: T104704215-19-30	*Analyzed:*	10.18.2019 20:17		10.18.2019 20:38		10.18.2019 21:00				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		<0.000207	0.000998	<0.000208	0.00100	<0.000205	0.000990			
Toluene		<0.000998	0.00499	<0.00100	0.00502	<0.000990	0.00495			
Ethylbenzene		<0.000335	0.000998	<0.000337	0.00100	<0.000332	0.000990			
m,p-Xylenes		<0.000436	0.00200	<0.000438	0.00201	<0.000432	0.00198			
o-Xylene		<0.000983	0.000998	<0.000989	0.00100	<0.000975	0.000990			
Total Xylenes		<0.000436	0.000998	<0.000438	0.00100	<0.000432	0.000990			
Total BTEX		<0.000207	0.000998	<0.000208	0.00100	<0.000205	0.000990			
Inorganic Anions by EPA 300	*Extracted:*	10.18.2019 10:15		10.18.2019 11:10		10.18.2019 11:10				
	Analyzed:	10.18.2019 15:36		10.18.2019 13:09		10.18.2019 13:25				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		29.8	5.00	1.33 J	5.02	21.0	4.96			
TPH by SW8015 Mod	*Extracted:*	10.18.2019 12:00		10.18.2019 12:00		10.18.2019 12:00				
	Analyzed:	10.18.2019 20:05		10.18.2019 20:23		10.18.2019 21:04				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons		<15.0	50.0	<15.0	49.9	<15.0	49.9			
Diesel Range Organics		<15.0	50.0	<15.0	49.9	<15.0	49.9			
Oil Range Hydrocarbons		<15.0	50.0	<15.0	49.9	<15.0	49.9			
Total TPH		<15.0	50.0	<15.0	49.9	<15.0	49.9			

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

John Builes
Project Manager

Analytical Report 640304

for

Sport Environmental Services, LLC

Project Manager: Debi Moore

XTO Energy-NCT-2 #010

NCT-2 #010 (1R-5027)

10.21.2019

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.21.2019

Project Manager: **Debi Moore**
Sport Environmental Services, LLC
502 North Big Spring Street
Midland, TX 79701

Reference: XENCO Report No(s): **640304**
XTO Energy-NCT-2 #010
Project Address:

Debi Moore:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 640304. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 640304 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

John Builes
Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NCT-CP- NW @ 0-1'BGS	S	10.16.2019 11:10		640304-001
NCT-CP- NW @ 5-6 'BGS	S	10.16.2019 11:32		640304-002
NCT-CP- EF @ 6'BGS	S	10.16.2019 11:35		640304-003
NCT-CP- WW @ 0-1'BGS	S	10.16.2019 11:09		640304-004
NCT-CP- WW @ 5-6' BGS	S	10.16.2019 11:31		640304-005
NCT-CP- SW @ 0-1'BGS	S	10.16.2019 11:07		640304-006
NCT-CP- SW @ 5-6'BGS	S	10.16.2019 11:33		640304-007
NCT-CP- EW @ 0-1'BGS	S	10.16.2019 11:08		640304-008
NCT-CP- EW @ 5-6'BGS	S	10.16.2019 11:30		640304-009

CASE NARRATIVE

Client Name: Sport Environmental Services, LLC

Project Name: XTO Energy-NCT-2 #010

Project ID:	*NCT-2 #010 (1R-5027)*	Report Date:	*10.21.2019*
Work Order Number(s):	*640304*	Date Received:	*10.17.2019*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id: **NCT-CP- NW @ 0-1'BGS** Matrix: Soil Date Received:10.17.2019 13:47

Lab Sample Id: 640304-001 Date Collected: 10.16.2019 11:10

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 10.18.2019 10:15 Basis: Wet Weight

Seq Number: 3104801

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.94**	5.00	0.858	mg/kg	10.18.2019 14:16	J	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.18.2019 12:00 Basis: Wet Weight

Seq Number: 3104813

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	50.0	15.0	mg/kg	10.18.2019 18:15	U	1
Diesel Range Organics	C10C28DRO	<15.0	50.0	15.0	mg/kg	10.18.2019 18:15	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	50.0	15.0	mg/kg	10.18.2019 18:15	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	10.18.2019 18:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.18.2019 18:15	
o-Terphenyl	84-15-1	98	%	70-135	10.18.2019 18:15	

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- NW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-001	Date Collected:	10.16.2019 11:10		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000208	0.00100	0.000208	mg/kg	10.18.2019 18:10	U	1
Toluene	108-88-3	<0.00100	0.00502	0.00100	mg/kg	10.18.2019 18:10	U	1
Ethylbenzene	100-41-4	<0.000337	0.00100	0.000337	mg/kg	10.18.2019 18:10	U	1
m,p-Xylenes	179601-23-1	<0.000438	0.00201	0.000438	mg/kg	10.18.2019 18:10	U	1
o-Xylene	95-47-6	<0.000989	0.00100	0.000989	mg/kg	10.18.2019 18:10	U	1
Total Xylenes	1330-20-7	<0.000438	0.00100	0.000438	mg/kg	10.18.2019 18:10	U	1
Total BTEX		<0.000208	0.00100	0.000208	mg/kg	10.18.2019 18:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	10.18.2019 18:10	
1,2-Dichloroethane-D4	17060-07-0	104	%	53-150	10.18.2019 18:10	
Toluene-D8	2037-26-5	100	%	70-130	10.18.2019 18:10	

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- NW @ 5-6 'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-002	Date Collected:	10.16.2019 11:32		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.0**	4.96	0.852	mg/kg	10.18.2019 14:46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	49.9	15.0	mg/kg	10.18.2019 18:33	U	1
Diesel Range Organics	C10C28DRO	<15.0	49.9	15.0	mg/kg	10.18.2019 18:33	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	49.9	15.0	mg/kg	10.18.2019 18:33	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	10.18.2019 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.18.2019 18:33	
o-Terphenyl	84-15-1	97	%	70-135	10.18.2019 18:33	

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- NW @ 5-6 'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-002	Date Collected:	10.16.2019 11:32		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000205	0.000990	0.000205	mg/kg	10.18.2019 18:32	U	1
Toluene	108-88-3	<0.000990	0.00495	0.000990	mg/kg	10.18.2019 18:32	U	1
Ethylbenzene	100-41-4	<0.000332	0.000990	0.000332	mg/kg	10.18.2019 18:32	U	1
m,p-Xylenes	179601-23-1	<0.000432	0.00198	0.000432	mg/kg	10.18.2019 18:32	U	1
o-Xylene	95-47-6	<0.000975	0.000990	0.000975	mg/kg	10.18.2019 18:32	U	1
Total Xylenes	1330-20-7	<0.000432	0.000990	0.000432	mg/kg	10.18.2019 18:32	U	1
Total BTEX		<0.000205	0.000990	0.000205	mg/kg	10.18.2019 18:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	53-142	10.18.2019 18:32	
1,2-Dichloroethane-D4	17060-07-0	111	%	53-150	10.18.2019 18:32	
Toluene-D8	2037-26-5	101	%	70-130	10.18.2019 18:32	

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- EF @ 6'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-003	Date Collected:	10.16.2019 11:35		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.1**	5.01	0.860	mg/kg	10.18.2019 14:56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	49.9	15.0	mg/kg	10.18.2019 18:52	U	1
Diesel Range Organics	C10C28DRO	<15.0	49.9	15.0	mg/kg	10.18.2019 18:52	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	49.9	15.0	mg/kg	10.18.2019 18:52	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	10.18.2019 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.18.2019 18:52	
o-Terphenyl	84-15-1	101	%	70-135	10.18.2019 18:52	

Certificate of Analytical Results 640304

Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- EF @ 6'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-003	Date Collected:	10.16.2019 11:35		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.18.2019 18:53	U	1
Toluene	108-88-3	<0.00100	0.00501	0.00100	mg/kg	10.18.2019 18:53	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.18.2019 18:53	U	1
m,p-Xylenes	179601-23-1	<0.000438	0.00200	0.000438	mg/kg	10.18.2019 18:53	U	1
o-Xylene	95-47-6	<0.000987	0.00100	0.000987	mg/kg	10.18.2019 18:53	U	1
Total Xylenes	1330-20-7	<0.000438	0.00100	0.000438	mg/kg	10.18.2019 18:53	U	1
Total BTEX		<0.000207	0.00100	0.000207	mg/kg	10.18.2019 18:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	97	%	53-142	10.18.2019 18:53	
1,2-Dichloroethane-D4	17060-07-0	105	%	53-150	10.18.2019 18:53	
Toluene-D8	2037-26-5	104	%	70-130	10.18.2019 18:53	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- WW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-004	Date Collected:	10.16.2019 11:09		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.09**	4.97	0.853	mg/kg	10.18.2019 15:06	J	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	49.8	14.9	mg/kg	10.18.2019 19:10	U	1
Diesel Range Organics	C10C28DRO	<14.9	49.8	14.9	mg/kg	10.18.2019 19:10	U	1
Oil Range Hydrocarbons	PHCG2835	<14.9	49.8	14.9	mg/kg	10.18.2019 19:10	U	1
Total TPH	PHC635	<14.9	49.8	14.9	mg/kg	10.18.2019 19:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	10.18.2019 19:10	
o-Terphenyl	84-15-1	92	%	70-135	10.18.2019 19:10	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- WW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-004	Date Collected:	10.16.2019 11:09		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.18.2019 19:14	U	1
Toluene	108-88-3	<0.00100	0.00500	0.00100	mg/kg	10.18.2019 19:14	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.18.2019 19:14	U	1
m,p-Xylenes	179601-23-1	<0.000437	0.00200	0.000437	mg/kg	10.18.2019 19:14	U	1
o-Xylene	95-47-6	<0.000985	0.00100	0.000985	mg/kg	10.18.2019 19:14	U	1
Total Xylenes	1330-20-7	<0.000437	0.00100	0.000437	mg/kg	10.18.2019 19:14	U	1
Total BTEX		<0.000207	0.00100	0.000207	mg/kg	10.18.2019 19:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	100	%	53-142	10.18.2019 19:14	
1,2-Dichloroethane-D4	17060-07-0	110	%	53-150	10.18.2019 19:14	
Toluene-D8	2037-26-5	100	%	70-130	10.18.2019 19:14	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- WW @ 5-6' BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-005	Date Collected:	10.16.2019 11:31		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.1**	4.96	0.852	mg/kg	10.18.2019 15:16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	50.0	15.0	mg/kg	10.18.2019 19:28	U	1
Diesel Range Organics	C10C28DRO	<15.0	50.0	15.0	mg/kg	10.18.2019 19:28	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	50.0	15.0	mg/kg	10.18.2019 19:28	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	10.18.2019 19:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.18.2019 19:28	
o-Terphenyl	84-15-1	98	%	70-135	10.18.2019 19:28	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- WW @ 5-6' BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-005	Date Collected:	10.16.2019 11:31		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.18.2019 19:35	U	1
Toluene	108-88-3	<0.00100	0.00501	0.00100	mg/kg	10.18.2019 19:35	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.18.2019 19:35	U	1
m,p-Xylenes	179601-23-1	<0.000438	0.00200	0.000438	mg/kg	10.18.2019 19:35	U	1
o-Xylene	95-47-6	<0.000987	0.00100	0.000987	mg/kg	10.18.2019 19:35	U	1
Total Xylenes	1330-20-7	<0.000438	0.00100	0.000438	mg/kg	10.18.2019 19:35	U	1
Total BTEX		<0.000207	0.00100	0.000207	mg/kg	10.18.2019 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	10.18.2019 19:35	
1,2-Dichloroethane-D4	17060-07-0	118	%	53-150	10.18.2019 19:35	
Toluene-D8	2037-26-5	100	%	70-130	10.18.2019 19:35	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- SW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-006	Date Collected:	10.16.2019 11:07		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.14**	5.00	0.858	mg/kg	10.18.2019 15:26	J	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	49.9	15.0	mg/kg	10.18.2019 19:46	U	1
Diesel Range Organics	C10C28DRO	<15.0	49.9	15.0	mg/kg	10.18.2019 19:46	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	49.9	15.0	mg/kg	10.18.2019 19:46	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	10.18.2019 19:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.18.2019 19:46	
o-Terphenyl	84-15-1	98	%	70-135	10.18.2019 19:46	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- SW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-006	Date Collected:	10.16.2019 11:07		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000208	0.00100	0.000208	mg/kg	10.18.2019 19:56	U	1
Toluene	108-88-3	<0.00100	0.00502	0.00100	mg/kg	10.18.2019 19:56	U	1
Ethylbenzene	100-41-4	<0.000337	0.00100	0.000337	mg/kg	10.18.2019 19:56	U	1
m,p-Xylenes	179601-23-1	<0.000438	0.00201	0.000438	mg/kg	10.18.2019 19:56	U	1
o-Xylene	95-47-6	<0.000989	0.00100	0.000989	mg/kg	10.18.2019 19:56	U	1
Total Xylenes	1330-20-7	<0.000438	0.00100	0.000438	mg/kg	10.18.2019 19:56	U	1
Total BTEX		<0.000208	0.00100	0.000208	mg/kg	10.18.2019 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	10.18.2019 19:56	
1,2-Dichloroethane-D4	17060-07-0	103	%	53-150	10.18.2019 19:56	
Toluene-D8	2037-26-5	101	%	70-130	10.18.2019 19:56	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- SW @ 5-6'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-007	Date Collected:	10.16.2019 11:33		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.18.2019 10:15	Basis:	Wet Weight
Seq Number:	3104801				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.8**	5.00	0.858	mg/kg	10.18.2019 15:36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.18.2019 12:00	Basis:	Wet Weight
Seq Number:	3104813				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	50.0	15.0	mg/kg	10.18.2019 20:05	U	1
Diesel Range Organics	C10C28DRO	<15.0	50.0	15.0	mg/kg	10.18.2019 20:05	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	50.0	15.0	mg/kg	10.18.2019 20:05	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	10.18.2019 20:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.18.2019 20:05	
o-Terphenyl	84-15-1	105	%	70-135	10.18.2019 20:05	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- SW @ 5-6'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-007	Date Collected:	10.16.2019 11:33		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.000998	0.000207	mg/kg	10.18.2019 20:17	U	1
Toluene	108-88-3	<0.000998	0.00499	0.000998	mg/kg	10.18.2019 20:17	U	1
Ethylbenzene	100-41-4	<0.000335	0.000998	0.000335	mg/kg	10.18.2019 20:17	U	1
m,p-Xylenes	179601-23-1	<0.000436	0.00200	0.000436	mg/kg	10.18.2019 20:17	U	1
o-Xylene	95-47-6	<0.000983	0.000998	0.000983	mg/kg	10.18.2019 20:17	U	1
Total Xylenes	1330-20-7	<0.000436	0.000998	0.000436	mg/kg	10.18.2019 20:17	U	1
Total BTEX		<0.000207	0.000998	0.000207	mg/kg	10.18.2019 20:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	10.18.2019 20:17	
1,2-Dichloroethane-D4	17060-07-0	109	%	53-150	10.18.2019 20:17	
Toluene-D8	2037-26-5	101	%	70-130	10.18.2019 20:17	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id: **NCT-CP- EW @ 0-1'BGS** Matrix: Soil Date Received:10.17.2019 13:47

Lab Sample Id: 640304-008 Date Collected: 10.16.2019 11:08

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.18.2019 11:10 Basis: Wet Weight

Seq Number: 3104768

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.33**	5.02	0.862	mg/kg	10.18.2019 13:09	J	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.18.2019 12:00 Basis: Wet Weight

Seq Number: 3104813

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	49.9	15.0	mg/kg	10.18.2019 20:23	U	1
Diesel Range Organics	C10C28DRO	<15.0	49.9	15.0	mg/kg	10.18.2019 20:23	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	49.9	15.0	mg/kg	10.18.2019 20:23	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	10.18.2019 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	10.18.2019 20:23	
o-Terphenyl	84-15-1	95	%	70-135	10.18.2019 20:23	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- EW @ 0-1'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-008	Date Collected:	10.16.2019 11:08		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000208	0.00100	0.000208	mg/kg	10.18.2019 20:38	U	1
Toluene	108-88-3	<0.00100	0.00502	0.00100	mg/kg	10.18.2019 20:38	U	1
Ethylbenzene	100-41-4	<0.000337	0.00100	0.000337	mg/kg	10.18.2019 20:38	U	1
m,p-Xylenes	179601-23-1	<0.000438	0.00201	0.000438	mg/kg	10.18.2019 20:38	U	1
o-Xylene	95-47-6	<0.000989	0.00100	0.000989	mg/kg	10.18.2019 20:38	U	1
Total Xylenes	1330-20-7	<0.000438	0.00100	0.000438	mg/kg	10.18.2019 20:38	U	1
Total BTEX		<0.000208	0.00100	0.000208	mg/kg	10.18.2019 20:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	53-142	10.18.2019 20:38	
1,2-Dichloroethane-D4	17060-07-0	105	%	53-150	10.18.2019 20:38	
Toluene-D8	2037-26-5	104	%	70-130	10.18.2019 20:38	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id: **NCT-CP- EW @ 5-6'BGS** Matrix: Soil Date Received:10.17.2019 13:47

Lab Sample Id: 640304-009 Date Collected: 10.16.2019 11:30

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.18.2019 11:10 Basis: Wet Weight

Seq Number: 3104768

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.0**	4.96	0.852	mg/kg	10.18.2019 13:25		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.18.2019 12:00 Basis: Wet Weight

Seq Number: 3104819

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	49.9	15.0	mg/kg	10.18.2019 21:04	U	1
Diesel Range Organics	C10C28DRO	<15.0	49.9	15.0	mg/kg	10.18.2019 21:04	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	49.9	15.0	mg/kg	10.18.2019 21:04	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	10.18.2019 21:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.18.2019 21:04	
o-Terphenyl	84-15-1	102	%	70-135	10.18.2019 21:04	

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Sport Environmental Services, LLC, Midland, TX

XTO Energy-NCT-2 #010

Sample Id:	**NCT-CP- EW @ 5-6'BGS**	Matrix:	Soil	Date Received:	10.17.2019 13:47
Lab Sample Id:	640304-009	Date Collected:	10.16.2019 11:30		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	
Analyst:	CRL	Date Prep:	10.18.2019 14:00	Basis:	Wet Weight
Seq Number:	3104847			SUB:	T104704215-19-30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000205	0.000990	0.000205	mg/kg	10.18.2019 21:00	U	1
Toluene	108-88-3	<0.000990	0.00495	0.000990	mg/kg	10.18.2019 21:00	U	1
Ethylbenzene	100-41-4	<0.000332	0.000990	0.000332	mg/kg	10.18.2019 21:00	U	1
m,p-Xylenes	179601-23-1	<0.000432	0.00198	0.000432	mg/kg	10.18.2019 21:00	U	1
o-Xylene	95-47-6	<0.000975	0.000990	0.000975	mg/kg	10.18.2019 21:00	U	1
Total Xylenes	1330-20-7	<0.000432	0.000990	0.000432	mg/kg	10.18.2019 21:00	U	1
Total BTEX		<0.000205	0.000990	0.000205	mg/kg	10.18.2019 21:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	10.18.2019 21:00	
1,2-Dichloroethane-D4	17060-07-0	113	%	53-150	10.18.2019 21:00	
Toluene-D8	2037-26-5	102	%	70-130	10.18.2019 21:00	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 640304

Sport Environmental Services, LLC

XTO Energy-NCT-2 #010

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104801 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688412-1-BLK — LCS Sample Id: 7688412-1-BKS — LCSD Sample Id: 7688412-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	249	100	250	100	90-110	0	20	mg/kg	10.18.2019 10:57	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104768 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688420-1-BLK — LCS Sample Id: 7688420-1-BKS — LCSD Sample Id: 7688420-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	254	102	252	101	90-110	1	20	mg/kg	10.18.2019 11:22	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104801 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640303-001 — MS Sample Id: 640303-001 S — MSD Sample Id: 640303-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.52	248	251	100	251	100	90-110	0	20	mg/kg	10.18.2019 11:27	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104801 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640303-011 — MS Sample Id: 640303-011 S — MSD Sample Id: 640303-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.55	248	250	99	250	99	90-110	0	20	mg/kg	10.18.2019 13:47	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104768 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640249-007 — MS Sample Id: 640249-007 S — MSD Sample Id: 640249-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	391	248	636	99	622	93	90-110	2	20	mg/kg	10.18.2019 12:53	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3104768 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640251-001 — MS Sample Id: 640251-001 S — MSD Sample Id: 640251-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.0	249	272	96	271	96	90-110	0	20	mg/kg	10.18.2019 11:38	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 640304

Sport Environmental Services, LLC

XTO Energy-NCT-2 #010

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104813 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688446-1-BLK — LCS Sample Id: 7688446-1-BKS — LCSD Sample Id: 7688446-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	1140	114	1140	114	70-135	0	20	mg/kg	10.18.2019 13:00	
Diesel Range Organics	<15.0	1000	1010	101	1030	103	70-135	2	20	mg/kg	10.18.2019 13:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		129		125		70-135	%	10.18.2019 13:00
o-Terphenyl	100		112		107		70-135	%	10.18.2019 13:00

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104819 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688447-1-BLK — LCS Sample Id: 7688447-1-BKS — LCSD Sample Id: 7688447-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	1050	105	1050	105	70-135	0	20	mg/kg	10.18.2019 12:54	
Diesel Range Organics	<15.0	1000	1090	109	1070	107	70-135	2	20	mg/kg	10.18.2019 12:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		108		108		70-135	%	10.18.2019 12:54
o-Terphenyl	119		115		112		70-135	%	10.18.2019 12:54

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104813 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688446-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Oil Range Hydrocarbons	<15.0	mg/kg	10.18.2019 12:41	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104819 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688447-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Oil Range Hydrocarbons	<15.0	mg/kg	10.18.2019 12:34	

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

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

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

QC Summary 640304

Sport Environmental Services, LLC

XTO Energy-NCT-2 #010

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104813 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640303-001 — MS Sample Id: 640303-001 S — MSD Sample Id: 640303-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	998	1190	119	1190	119	70-135	0	20	mg/kg	10.18.2019 13:56	
Diesel Range Organics	<15.0	998	1030	103	1030	103	70-135	0	20	mg/kg	10.18.2019 13:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-135	%	10.18.2019 13:56
o-Terphenyl	111		108		70-135	%	10.18.2019 13:56

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104819 — Matrix: Soil — Date Prep: 10.18.2019
Parent Sample Id: 640269-001 — MS Sample Id: 640269-001 S — MSD Sample Id: 640269-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	999	1070	107	1090	109	70-135	2	20	mg/kg	10.18.2019 13:57	
Diesel Range Organics	<15.0	999	1120	112	1170	117	70-135	4	20	mg/kg	10.18.2019 13:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		110		70-135	%	10.18.2019 13:57
o-Terphenyl	114		116		70-135	%	10.18.2019 13:57

Analytical Method: BTEX by SW 8260C — Prep Method: SW5035A
Seq Number: 3104847 — Matrix: Solid — Date Prep: 10.18.2019
MB Sample Id: 7688512-1-BLK — LCS Sample Id: 7688512-1-BKS — LCSD Sample Id: 7688512-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0445	89	0.0449	90	62-132	1	25	mg/kg	10.18.2019 11:20	
Toluene	<0.00100	0.0500	0.0450	90	0.0454	91	66-124	1	25	mg/kg	10.18.2019 11:20	
Ethylbenzene	<0.000336	0.0500	0.0468	94	0.0473	95	71-134	1	25	mg/kg	10.18.2019 11:20	
m,p-Xylenes	<0.000437	0.100	0.0926	93	0.0943	94	69-128	2	25	mg/kg	10.18.2019 11:20	
o-Xylene	<0.000985	0.0500	0.0478	96	0.0484	97	72-131	1	25	mg/kg	10.18.2019 11:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		99		99		53-142	%	10.18.2019 11:20
1,2-Dichloroethane-D4	101		101		104		53-150	%	10.18.2019 11:20
Toluene-D8	101		106		107		70-130	%	10.18.2019 11:20

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

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

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

QC Summary 640304

Sport Environmental Services, LLC

XTO Energy-NCT-2 #010

Analytical Method: **BTEX by SW 8260C** Prep Method: SW5035A

Seq Number: 3104847 Matrix: Soil Date Prep: 10.18.2019

Parent Sample Id: 640134-019 MS Sample Id: 640134-019 S MSD Sample Id: 640134-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000205	0.0495	0.0446	90	0.0454	90	62-132	2	25	mg/kg	10.18.2019 12:11	
Toluene	<0.000990	0.0495	0.0440	89	0.0444	88	66-124	1	25	mg/kg	10.18.2019 12:11	
Ethylbenzene	<0.000332	0.0495	0.0451	91	0.0453	90	71-134	0	25	mg/kg	10.18.2019 12:11	
m,p-Xylenes	<0.000432	0.0990	0.0900	91	0.0897	90	69-128	0	25	mg/kg	10.18.2019 12:11	
o-Xylene	<0.000975	0.0495	0.0462	93	0.0463	92	72-131	0	25	mg/kg	10.18.2019 12:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		103		53-142	%	10.18.2019 12:11
1,2-Dichloroethane-D4	107		105		53-150	%	10.18.2019 12:11
Toluene-D8	105		104		70-130	%	10.18.2019 12:11

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

Work Order No: 640304

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Debi Moore	Bill to: (if different)	
Company Name:	Sport Environmental Services, LLC	Company Name:	
Address:	502 N Big Spring Street	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-683-1100	Email:	debi @sportenv.com cianna@sportenv.com clint@sportenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RR ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	XTO Energy - NCT-2 #010	Turn Around	
Project Number:	NCT -2 #010 (1R-5027)	Routine:	
P.O. Number:		Rush: X	
Sampler's Name:	Clint Elliott	Due Date: 10/22/19	

SAMPLE RECEIPT			
Temperature (°C):	2.5 / 17.5	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Wet Ice:	(Yes) No
Cooler Custody Seals:	Yes No (N/A)	Thermometer ID	D8
Sample Custody Seals:	Yes (No) N/A	Correction Factor:	
		Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	300_ORGFMS - Chlorides	8015B_DRO - DRO/MRO	8015B_GRO	8260B_BTEX	Sample Comments
NCT-CP-CS NW @ 0-1'bgs	S	10/16/19	1110		1	x	x	x	x	From Field
NCT-CP-CS NW @ 5-6'bgs	S	10/16/19	1132		1	x	x	x	x	From Field
NCT-CP-CS EF @ 6'bgs	S	10/16/19	1135		1	x	x	x	x	From Field
NCT-CP-CS WW @ 0-1'bgs	S	10/16/19	1109		1	x	x	x	x	From Field
NCT-CP-CS WW @ 5-6'bgs	S	10/16/19	1131		1	x	x	x	x	From Field
NCT-CP-CS SW @ 0-1'bgs	S	10/16/19	1107		1	x	x	x	x	From Field
NCT-CP-CS SW @ 5-6'bgs	S	10/16/19	1133		1	x	x	x	x	From Field
NCT-CP-CS EW @ 0-1'bgs	S	10/16/19	1108		1	x	x	x	x	From Field
NCT-CP-CS EW @ 5-6'bgs	S	10/16/19	1130		1	x	x	x	x	From Field

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Clint Elliott	Jacare Smith	10/16/2019 @ 18:00	2 Jacare Smith		10/17/2019 @ 1347
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Inter-Office Shipment

IOS Number : 50357

Date/Time: 10.17.2019
Created by: Brianna Teel
Please send report to: John Builes
Lab# From: **Midland**
Delivery Priority:
Address: 1211 W. Florida Ave
Lab# To: **Houston**
Air Bill No.: 776750844752
E-Mail: john.builes@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
640304-001	S	NCT-CP- NW @ 0-1'B	10.16.2019 11:10	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-002	S	NCT-CP- NW @ 5-6 '	10.16.2019 11:32	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-003	S	NCT-CP- EF @ 6'BGS	10.16.2019 11:35	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-004	S	NCT-CP- WW @ 0-1'B	10.16.2019 11:09	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-005	S	NCT-CP- WW @ 5-6'	10.16.2019 11:31	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-006	S	NCT-CP- SW @ 0-1'B	10.16.2019 11:07	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-007	S	NCT-CP- SW @ 5-6'B	10.16.2019 11:33	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-008	S	NCT-CP- EW @ 0-1'B	10.16.2019 11:08	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	
640304-009	S	NCT-CP- EW @ 5-6'B	10.16.2019 11:30	SW8260CBTEX	BTEX by SW 8260C	10.21.2019	10.30.2019	JHB	BZ BZME EBZ XYLENE	

Inter Office Shipment or Sample Comments:

Relinquished By: Brianna Teel
Brianna Teel

Date Relinquished: 10.17.2019

Received By: Travis Simmons
Travis Simmons

Date Received: 10.18.2019

Cooler Temperature: 2.0

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 50357

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-068

Sent By: Brianna Teel **Date Sent:** 10.17.2019 02.16 PM

Received By: Travis Simmons **Date Received:** 10.18.2019 09.30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Travis Simmons Date: 10.18.2019

Travis Simmons

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Sport Environmental Services, LLC

Date/ Time Received: 10.17.2019 01.47.00 PM

Work Order #: 640304

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Xenco Stafford-BTEX8260
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 10.17.2019

Brianna Teel

Checklist reviewed by: Date: 10.21.2019

John Builes

Attachment H

Soil Boring Log

Boring Log / Field Notes
New Mexico NCT-2 #010
June 27, 2019

Rig Operator: Mr. David Lagoski (Operations Manager)
Rig Company: Harrison Cooper, Inc.

SB-1: 0-5 feet Tan Sand
5-20 feet Light Sand with Caliche

SB-2-4: Same Lithology as SB-1

Attachment I

New Final Form C-141
(dated November 5, 2019)

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 Coordinator	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 32.560940° Longitude -103.284378°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name New Mexico C State NCT-2 #010	Site Type Tank Battery
Date Release Discovered 12/7/2004	API# *(if applicable)* 30-025-32691

Unit Letter	Section	Township	Range	County
H	19	20S	37E	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) 28	Volume Recovered (bbls) 25
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The crude oil storage tank head switch failed and caused the crude oil storage tank to overflow. Per the original Form C-141 that was completed in 2004, "A total of 908 cubic yards of soil impacted above the NMOCD CoC remedial goals was excavated and dispose of in the Environmental Plus, Inc. Landfarm #NM-01-0013. Remedial Goals achieved: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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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: 4/15/20_____

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

OCD Only

Received by: _____ Date: _____

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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?	35 (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.

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Signature: Shelby Pennington_____ Date: 4/15/20_____

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

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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.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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Received by: _____ Date: _____

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

Signature: _____ Date: _____

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Closure

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

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.

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
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 5001

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 5001
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/23/2022