



Seven Rivers Queen (1RP-5218)



RELEASE CLOSURE REPORT

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

June 7, 2019



June 7, 2019

Mr. Jim Griswold
Environmental Bureau Chief
New Mexico Oil Conservation Division
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
jim.griswold@state.nm.us

Re: Release Closure Report
XTO Energy, Inc.
Seven Rivers Queen
RP #: 1R-5218
API #: 30-025-08773
Approximate Geographic Coordinates: 32.41861, -103.27083
Unit Letter K, Section 4, Township 22S, Range 36E
Lea County, New Mexico

Mr. Griswold:

Sport Environmental Services, LLC is submitting a Release Closure Report on behalf of XTO Energy, Inc. (*XTO* or *Client*) for the Seven Rivers Queen (*subject site*) where a release of produced water along the injection line at this location occurred on September 13, 2018. The subject site, which was reported to be owned by Mack Operating, has unique characteristics as it is a caliche pit that was undergoing closure when the release occurred. The southern portion of the site appeared to have been blended and feathered once caliche extraction was no longer ongoing as part of the closure process. Following the confirmation sampling work described in this report, the site was again feathered to

The subject site appears to be under the jurisdiction of both the New Mexico Oil Conservation Division and the State Land Office. A site plan (**Attachment A**) is provided showing the approximate boundary separating the subject site into two (2) distinct portions. The north release path appears to be subject to New Mexico Oil Conservation Division (*NMOCD*) jurisdiction while the south release path, which is topographically down-gradient, would be subject to State Land Office (*SLO*) jurisdiction.

An Initial Form C-141 was submitted to NMOCD following the release and the agency assigned the release 1RP-5218 as an identifier. Both the Initial and Final C-141 Forms are available in **Attachment B**. SLO was also notified of the release upon its discovery and is aware of the unique challenges associated with addressing the release given that the southern release path (SRP) area is a caliche pit that was in the process of being closed out at the time the release occurred. Depth sampling in the SRP for site characterization was performed with an excavator that included rock teeth mounted to the bucket since the caliche made the use of direct-push technology infeasible and the slope of the site made use of a large air-rotary rig unsafe. Despite these limitations, Sport Environmental has been able to provide a characterization of the site that should account for the concentrations of relevant constituents of concern as demonstrated herein. A site plan showing the chloride concentrations associated with the greatest depth for which a soil sample was obtained at each sample point is provided in **Attachment C**.

BACKGROUND & SITE HISTORY

On September 13, 2018, a Fiberflex injection line at the subject site developed a leak. This leak resulted in a release of approximately 865 barrels (bbl) of produced water which affected soil at the subject site -- a caliche pit which had been previously feathered to match existing topography in the area. The produced water flowed into this topographic depression (i.e., the former caliche source) which resulted in its containment. Approximately 660 bbl of produced water were recovered with a vacuum truck upon discovery of the release yielding a net loss of approximately 205 bbl of produced water at the subject site.

At the NMOCD's request, the client has provided a copy of the analysis of the source water to provide further detail regarding the quality of the produced water released (**Attachment D**). The relatively low concentration of Total Dissolved Solids (including sodium and chloride ions) is also suggested by the results of soil sampling which are discussed below. The client provided the best available data associated with the characteristics of this water which showed Total Dissolved Solids (TDS) concentrations in the water to be approximately 9,790 ppm. Chloride concentrations were approximately 5,045 ppm in the water associated with the source water from this release. Given that the depth to groundwater for this location is estimated to be greater than 100 feet based on a review of the New Mexico Office of the relevant State Engineer (NMOSE) databases (**Attachment E**), it appears that the closure criteria for the portion of this site that is subject to NMOCD jurisdiction would be 20,000 ppm with regard to chloride concentrations.

INITIAL SITE CHARACTERIZATION SOIL SAMPLING & ANALYTICAL RESULTS SUMMARY

The Client's timely response and recovery efforts resulted in largely successful initial cleanup as indicated by the initial soil sampling performed by Sport Environmental Services, LLC (*Sport Environmental*) on September 18, 2018. This was further confirmed by Sport Environmental's efforts to provide improved site characterization data via horizontal and vertical delineation sampling performed on February 14, 2019 and February 20, 2019. For the February 14, 2019 sampling event a Geoprobe 540UD was utilized to conduct discrete depth soil sampling at portions of the NRP where use of a truck-mounted unit was possible. For those areas where use to the truck-mounted Geoprobe was unsafe or infeasible, a stainless-steel hand auger was utilized to obtain soil samples at the NRP areas. The layer of hard caliche made depth sampling with all available tools difficult and the depth of each sample point was ultimately determined by the point at which auger or equipment refusal was encountered. Horizontal Delineation Points (HDPs) associated with the NRP and SRP areas were also collected using the safest and most appropriate methods available based on site-specific conditions. Generally, the SRP sample points were conducted using an excavator with rock teeth that were mounted to the bucket. All soil samples were submitted to TestAmerica/Eurofins Scientific, a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory for analysis. A summary of results associated with this sampling is provided on the table that follows.

Table A: Delineation and Site Characterization Soil Sampling (February 2019)

XTO Energy, Inc. - Seven Rivers Queen (1RP-5218)								
Delineation and Site Characterization Sampling								
	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
NRP-BG-001 @ 0-1' bgs 2/14/2019 9:27 AM								ND
NRP-BG-001 @ 2' bgs 2/14/2019 9:27 AM								ND
NRP-BG-001 @ 4' bgs 2/14/2019 9:30 AM	ND	ND	ND	ND	ND	ND	ND	ND
SRP-BG-001 @ 0-1' bgs 2/14/2019 9:25 AM								ND
SRP-BG-001 @ 2' bgs 2/14/2019 9:26 AM								ND
SRP-BG-001 @ 4' bgs 2/14/2019 9:29 AM								ND
SRP-BG-001 @ 8' bgs 2/14/2019 9:35 AM								ND
SRP-BG-001 @ 10' bgs 2/14/2019 9:44 AM	ND	ND	ND	ND	ND	ND	ND	ND
NRP-SB-01-001 @ 0-1' bgs 2/14/2019 10:18 AM								ND
NRP-SB-01-001 @ 1.5' bgs 2/14/2019 10:21 AM	ND	ND	ND	ND	ND	38.0	67.2	36.6
NRP-SB-02-001 @ 0-1' bgs 2/14/2019 10:30 AM								ND
NRP-SB-02-001 @ 2' bgs 2/14/2019 10:36 AM	ND	ND	ND	ND	ND	3.93	ND	129
NRP-SB-03-001 @ 0-1' bgs 2/14/2019 10:44 AM	ND	ND	ND	ND	ND	8.10	3.52	ND
NRP-SB-04-001 @ 0-1' bgs 2/14/2019 10:55 AM								ND
NRP-SB-04-001 @ 1.5' bgs 2/14/2019 11:02 AM	ND	ND	ND	ND	ND	6.21	5.29	91.1
NRP-SB-05-001 @ 0-1' bgs 2/14/2019 11:10 AM								ND
NRP-SB-05-001 @ 1.75' bgs 2/14/2019 11:15 AM	ND	ND	ND	ND	ND	4.63	ND	54.3
NRP-SB-06-001 @ 0-1' bgs 2/14/2019 11:25 AM								ND
NRP-SB-06-001 @ 2' bgs 2/14/2019 11:29 AM								18.5
NRP-SB-06-001 @ 4' bgs 2/14/2019 11:36 AM								421

XTO Energy, Inc. - Seven Rivers Queen (1RP-5218) Delineation and Site Characterization Sampling								
	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte Units	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes, Total mg/Kg	Gasoline Range Organics [C6 - C10] mg/Kg	MRO (C28-C35) mg/Kg	Diesel Range Organics [C10-C28] mg/Kg	Chloride mg/Kg
NRP-SB-06-001 @ 5.75' bgs 2/14/2019 12:08 PM	ND	ND	ND	ND	ND	2.53	ND	533
NRP-SB-07-001 @ 0-1' bgs 2/14/2019 12:21 PM								ND
NRP-SB-07-001 @ 2' bgs 2/14/2019 12:24 PM								ND
NRP-SB-07-001 @ 4' bgs 2/14/2019 12:30 PM	ND	ND	ND	ND	ND	4.2	ND	399
NRP-SB-08-001 @ 0-1' bgs 2/14/2019 12:45 PM								ND
NRP-SB-08-001 @ 2' bgs 2/14/2019 12:51 PM								108
NRP-SB-08-001 @ 4' bgs 2/14/2019 12:58 PM								252
NRP-SB-08-001 @ 8' bgs 2/14/2019 1:22 PM								49.3
NRP-SB-08-001 @ 9' bgs 2/14/2019 1:33 PM	ND	ND	ND	ND	ND	ND	ND	84.0
NRP-SB-09-001 @ 0-1' bgs 2/14/2019 1:46 PM								ND
NRP-SB-09-001 @ 2' bgs 2/14/2019 1:49 PM								27.8
NRP-SB-09-001 @ 3.5' bgs 2/14/2019 1:55 PM	ND	ND	ND	ND	ND	4.05	ND	357
NRP-SB-10-001 @ 0-1' bgs 2/14/2019 1:18 PM								ND
NRP-SB-10-001 @ 2' bgs 2/14/2019 1:18 PM								ND
NRP-SB-10-001 @ 3' bgs 2/14/2019 1:18 PM	ND	ND	ND	ND	ND	5.82	ND	172
NRP-SB-11-001 @ 0-1' bgs 2/14/2019 2:33 PM								ND
NRP-SB-11-001 @ 2' bgs 2/14/2019 2:33 PM	ND	ND	ND	ND	ND	ND	ND	214
NRP-SB-12-001 @ 0-1' bgs 2/14/2019 2:48 PM								ND
NRP-SB-12-001 @ 2' bgs 2/14/2019 2:48 PM	ND	ND	ND	ND	ND	ND	ND	446
NRP-SB-13-001 @ 0-1' bgs 2/14/2019 3:16 PM	ND	ND	ND	ND	ND	ND	ND	11.7

XTO Energy, Inc. - Seven Rivers Queen (1RP-5218) Delineation and Site Characterization Sampling								
	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
NRP-SB-14-001 @ 0-1' bgs 2/14/2019 3:31 PM	NS	NS	NS	NS	NS	NS	NS	176
SRP-SB-01-001 @ 0-1' bgs 2/14/2019 2:46 PM								ND
SRP-SB-01-001 @ 2' bgs 2/14/2019 2:47 PM								130
SRP-SB-01-001 @ 4' bgs 2/14/2019 2:51 PM								404
SRP-SB-01-001 @ 7' bgs 2/14/2019 3:02 PM	ND	ND	ND	ND	ND	ND	ND	440
SRP-SB-02-001 @ 0-1' bgs 2/14/2019 2:29 PM								ND
SRP-SB-02-001 @ 2' bgs 2/14/2019 2:30 PM								ND
SRP-SB-02-001 @ 4' bgs 2/14/2019 2:33 PM								379
SRP-SB-02-001 @ 6' bgs 2/14/2019 2:41 PM	ND	ND	ND	ND	ND	ND	ND	389
SRP-SB-03-001 @ 0-1' bgs 2/14/2019 3:07 PM								ND
SRP-SB-03-001 @ 2' bgs 2/14/2019 3:09 PM								ND
SRP-SB-03-001 @ 4' bgs 2/14/2019 3:10 PM								ND
SRP-SB-03-001 @ 8' bgs 2/14/2019 3:16 PM								63.3
SRP-SB-03-001 @ 10' bgs 2/14/2019 3:19 PM	ND	ND	ND	ND	ND	ND	ND	9.5
SRP-SB-04-001 @ 0-1' bgs 2/14/2019 1:44 PM								ND
SRP-SB-04-001 @ 2' bgs 2/14/2019 1:45 PM								ND
SRP-SB-04-001 @ 4' bgs 2/14/2019 1:46 PM								ND
SRP-SB-04-001 @ 8' bgs 2/14/2019 1:55 PM								27.7
SRP-SB-04-001 @ 11' bgs 2/14/2019 2:00 PM	ND	ND	ND	ND	ND	ND	ND	270
SRP-SB-05-001 @ 0-1' bgs 2/14/2019 12:44 PM								ND

XTO Energy, Inc. - Seven Rivers Queen (1R-5218) Delineation and Site Characterization Sampling								
	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte Units	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes, Total mg/Kg	Gasoline Range Organics [C6 - C10] mg/Kg	MRO [C28-C35] mg/Kg	Diesel Range Organics [C10-C28] mg/Kg	Chloride mg/Kg
SRP-SB-05-001 @ 2' bgs 2/14/2019 12:46 PM								ND
SRP-SB-05-001 @ 4' bgs 2/14/2019 12:49 PM								15.6
SRP-SB-05-001 @ 8' bgs 2/14/2019 1:14 PM								19.8
SRP-SB-05-001 @ 10' bgs 2/14/2019 1:22 PM	ND	ND	ND	ND	ND	ND	ND	224
SRP-SB-06-001 @ 0-1' bgs 2/14/2019 12:19 PM								ND
SRP-SB-06-001 @ 2' bgs 2/14/2019 12:20 PM								289
SRP-SB-06-001 @ 4' bgs 2/14/2019 12:22 PM								106
SRP-SB-06-001 @ 8' bgs 2/14/2019 12:31 PM								75.0
SRP-SB-06-001 @ 10' bgs 2/14/2019 12:34 PM	ND	0.00064	ND	ND	ND	ND	ND	15.4
SRP-SB-07-001 @ 0-1' bgs 2/14/2019 11:53 AM								ND
SRP-SB-07-001 @ 2' bgs 2/14/2019 11:55 AM								ND
SRP-SB-07-001 @ 4' bgs 2/14/2019 11:57 AM								82.9
490-168662-73 SRP-SB-07-001 @ 8' bgs 2/14/2019 12:11 PM								14.1
SRP-SB-07-001 @ 9' bgs 2/14/2019 12:13 PM	ND	ND	ND	ND	ND	ND	ND	210
SRP-SB-08-001 @ 0-1' bgs 2/14/2019 11:32 AM								ND
SRP-SB-08-001 @ 2' bgs 2/14/2019 11:33 AM								ND
SRP-SB-08-001 @ 4' bgs 2/14/2019 11:36 AM								115
SRP-SB-08-001 @ 8' bgs 2/14/2019 11:50 AM	ND	ND	ND	ND	ND	ND	ND	12.2
SRP-SB-09-001 @ 0-1' bgs 2/14/2019 11:09 AM								ND
SRP-SB-09-001 @ 2' bgs 2/14/2019 11:11 AM								ND

XTO Energy, Inc. - Seven Rivers Queen (1RP-5218) Delineation and Site Characterization Sampling								
	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte Units	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes, Total mg/Kg	Gasoline Range Organics [C6 - C10] mg/Kg	MRO (C28-C35) mg/Kg	Diesel Range Organics [C10-C28] mg/Kg	Chloride mg/Kg
SRP-SB-09-001 @ 4' bgs 2/14/2019 11:15 AM								24.5
SRP-SB-09-001 @ 8' bgs 2/14/2019 11:28 AM	ND	ND	ND	ND	ND	ND	ND	17.5
HDP-SB-01-001 @ 0-1'bgs 2/20/2019 7:30 AM								ND
HDP-SB-01-001 @ 2'bgs 2/20/2019 7:30 AM	NS	NS	NS	NS	NS	NS	NS	ND
HDP-SB-02-001 @ 0-1'bgs 2/20/2019 7:51 AM								ND
HDP-SB-02-001 @ 2'bgs 2/20/2019 7:57 AM	NS	NS	NS	NS	NS	NS	NS	ND
HDP-SB-03-001 @ 0-1'bgs 2/20/2019 8:12 AM								ND
HDP-SB-03-001 @ 1.5'bgs 2/20/2019 8:19 AM								ND
HDP-SB-04-001 @ 0-1'bgs 2/20/2019 8:29 AM								ND
HDP-SB-04-001 @ 2'bgs 2/20/2019 8:36 AM								ND
HDP-SB-04-001 @ 3'bgs 2/20/2019 8:42 AM	NS	NS	NS	NS	NS	NS	NS	ND
HDP-SB-05-001 @ 0-1'bgs 2/20/2019 9:04 AM								ND
HDP-SB-05-001 @ 2'bgs 2/20/2019 9:04 AM	NS	NS	NS	NS	NS	NS	NS	ND
HDP-SB-06-001 @ 0-1' bgs 2/14/2019 2:09 PM								ND
HDP-SB-06-001 @ 2' bgs 2/14/2019 2:11 PM								ND
HDP-SB-06-001 @ 4' bgs 2/14/2019 2:12 PM								ND
HDP-SB-06-001 @ 8' bgs 2/14/2019 2:20 PM								ND
HDP-SB-06-001 @ 11' bgs 2/14/2019 2:23 PM	ND	ND	ND	ND	ND	ND	ND	ND
HDP-SB-07-001 @ 0-1' bgs 2/14/2019 9:56 AM								ND
490-168662-89 HDP-SB-07-001 @ 2' bgs 2/14/2019 10:00 AM								ND

XTO Energy, Inc. - Seven Rivers Queen (1RP-5218) Delineation and Site Characterization Sampling								
	BTEX				Total Petroleum Hydrocarbons (TPH)			Chloride
Analyte Units	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes, Total mg/Kg	Gasoline Range Organics [C6 - C10] mg/Kg	MRO (C28-C35) mg/Kg	Diesel Range Organics [C10-C28] mg/Kg	Chloride mg/Kg
HDP-SB-07-001 @ 4' bgs 2/14/2019 10:01 AM								ND
HDP-SB-07-001 @ 8' bgs 2/14/2019 10:08 AM								ND
HDP-SB-07-001 @ 10' bgs 2/14/2019 10:12 AM	ND	ND	ND	ND	ND	ND	ND	ND
HDP-SB-08-001 @ 0-1' bgs 2/14/2019 3:23 PM								ND
HDP-SB-08-001 @ 2' bgs 2/14/2019 3:25 PM								ND
HDP-SB-08-001 @ 4' bgs 2/14/2019 3:27 PM								ND
HDP-SB-08-001 @ 7' bgs 2/14/2019 3:33 PM	ND	ND	ND	ND	ND	ND	ND	ND
Notes: ND = Not Detected NS = Not Sampled								

A Site Plan and Sampling Diagram (**Attachment F**) is available for reference and includes the locations where sampling was performed at the subject site. In addition to the summary of provided above, the full analytical results from these sampling events are included in **Attachment G**.

During the sampling event, samples were collected in accordance with proper sampling protocols to ensure representative characterization of soils submitted to TestAmerica/Eurofins Scientific 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. Since TPH and BTEX had been assessed in prior sampling shortly after the release occurred and were only present in concentrations far below their respective regulatory limits, if they were detected at all, the analysis of these constituents was limited to sampling at the location within each borehole with the highest concentration of chloride and the deepest sample point within an individual borehole. In a limited subset of samples, the environmental laboratory did not run the requested additional TPH and BTEX analyses. However, these constituents were not present or were well below their regulatory limits at all of the other points assessed and the subject site appeared to be homogeneous with regard to the limited TPH and BTEX impacts; therefore, resampling was not performed.

GROUNDWATER & REMEDIATION CRITERIA

Groundwater depth is assumed to be greater than 100 feet below ground surface ('bgs) based on Sport Environmental's review of New Mexico Office of the State Engineer (NMOSE) data (please see previously mentioned **Attachment E**).

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 for the area associated with NMOCD jurisdiction (i.e., the north release path):

Table B: §19.15.29 NMAC Table 1 Excerpt

Closure Criteria for Soils	
Depth to Groundwater Greater than 100 feet below release boundary	
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX (<i>total</i>)	50 mg/kg
Benzene	10 mg/kg

The results of this sampling are compared within this report to the NMOCD's closure criteria concentrations as detailed in the table above. Based on a review of the data, affected soils would not be expected to have chloride concentrations in excess of 20,000 ppm. Neither the NRP nor the SRP showed detectable concentrations of Total Petroleum Hydrocarbons (TPH) or Benzene, Toluene, Ethylbenzene, Xylenes (collectively referred to as BTEX). Chloride concentrations at all of the confirmation sample points were less than the 600-ppm limit utilized by the NMOCD for delineation purposes.

BORING & EXCAVATION LOGS

Given the homogenous nature of the subject site, soil characteristics did not vary significantly between boring or excavation sample points. Representative boring logs for the background sample location and select NRP and SRP sample points are provided in **Attachment H**.

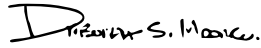
PHOTOGRAPHIC LOG

A photographic log containing geotagged photographs of the subject site is provided as a supplement to this report (**Attachment I**).

CLOSURE REQUEST

On behalf of XTO Energy, Inc., Sport Environmental requests that closure be granted for the release identified as 1R-5218 at the subject site. Thank you for granting an extension for the submittal of this report on account of the unique characteristics of this site as well as the transfer of this job between several NMOCD personnel. Should either agency have any further questions or comments regarding this report, please contact us at (432) 683-1100. Thank you for your consideration.

Sincerely,



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

cc: Mr. Ryan Mann
Hobbs District Resource Manager
New Mexico State Land Office (SLO)
2827 N. Dal Paso, Suite 117
Hobbs, NM 88240
rmann@slo.state.nm.us

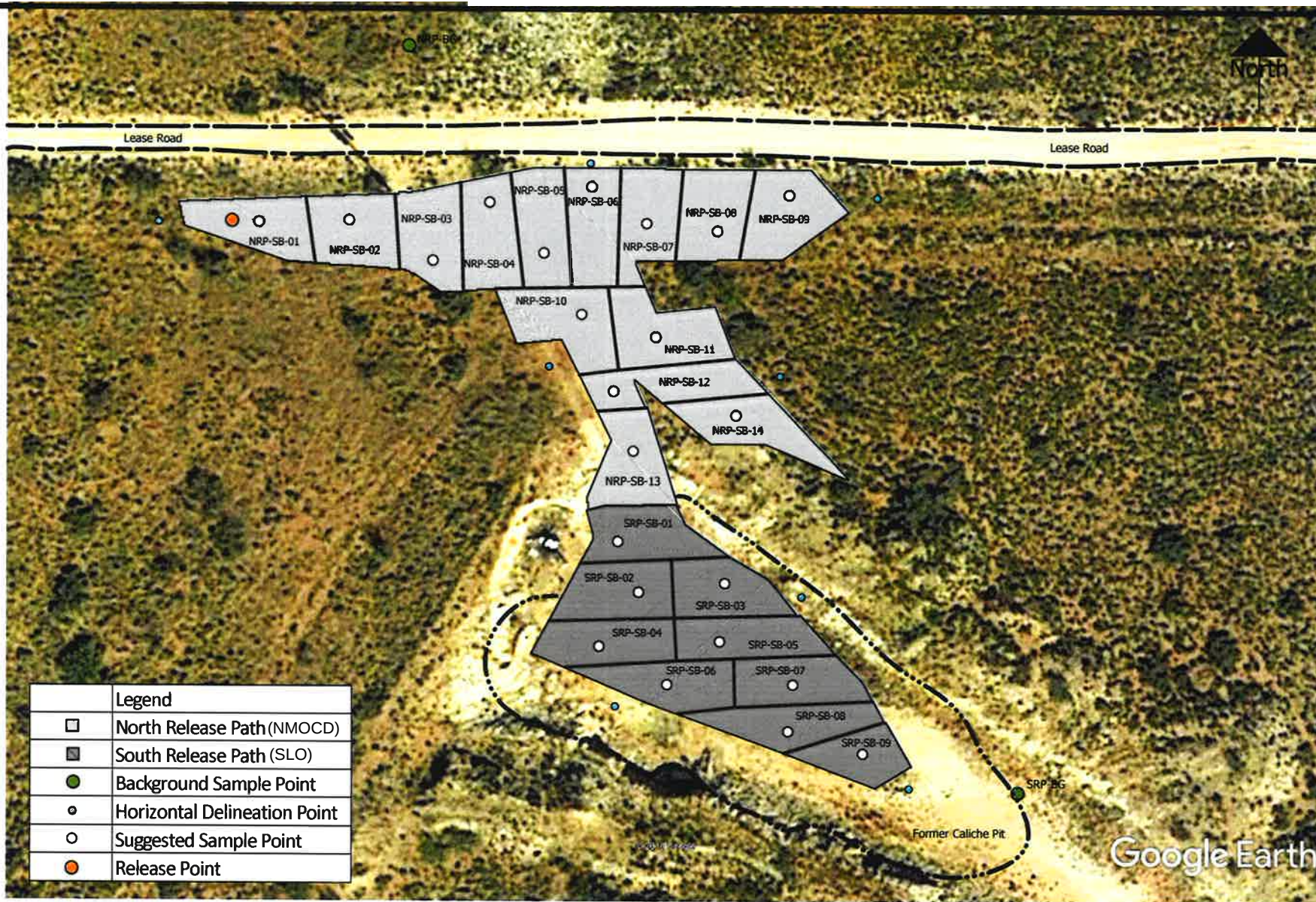
Mr. Shelby Pennington (XTO Energy, Inc. – Environmental Supervisor)

List of Attachments:

- A Site Plan*
- B Final C-141 Form and Initial C-141 Copy (originally submitted September of 2018)*
- C Site Plan with Depth and Chloride Concentration Data*
- D Source Water Analysis*
- E Groundwater Depth Data*
- F Site Plan and Soil Sampling Diagram*
- G Analytical Reports and Chain-of-Custody Forms*
- H Boring and Excavation Logs*
- I Photographic Log with Geotagged Photos*

Attachment A

Site Plan



XTO Energy, Inc.
Seven Rivers Queen Release (1RP-5218)

Lea County, New Mexico

SITE PLAN

Latitude Longitude
 32.41861 N -103.27083 W

Author Drawing Date Site Visit Date
 mlb 2-5-2019

Attachment B
Final C-141 and
Initial C-141 Copy (originally submitted September of 2018)

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	NOY1827453039
District RP	1RP-5218
Facility ID	
Application ID	pOY1827452324

Release Notification

Responsible Party

Responsible Party XTO Energy, Inc.	OGRID 5380
Contact Name Shelby Pennington, Environmental Supervisor	Contact Telephone (281) 723-9353
Contact email shelby_pennington@xtoenergy.com	Incident # (assigned by OCD) NOY1827453039
Contact mailing address 6401 Holiday Hill Road, Midland, TX 79707	

Location of Release Source

Latitude 32.41861°N Longitude -103.27083°W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Seven Rivers Queen	Site Type Injection line
Date Release Discovered September 13, 2018	API# (if applicable) 30-025-08773

Unit Letter	Section	Township	Range	County
K	4	22S	36E	Lea

State minerals

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) Est. 865 bbl	Volume Recovered (bbls) 660 bbl
	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 release was caused when a Fiberflex injection line developed a leak. The exact cause is unknown at this time.

Incident ID	NOY1827453039
District RP	1RP-5218
Facility ID	
Application ID	pOY1827452324

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? The volume of the release was estimated to be 865 bbl, with a recovered volume of 660 bbl, and a net loss of 205 bbl.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc.)? Mr. Shelby Pennington, Environmental Supervisor with XTO Energy, made immediate initial release notification via email on 09-13-2018 to Ms. Olivia Yu, NMOCD. Mr. Jim Griswold, NMOCD Environmental Bureau Chief was also notified via email on 09-13-2018 due to the release size.	

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 <u>not</u> been undertaken, explain why: XTO Energy has performed initial response measures inclusive of leak isolation and recovery of all free fluids utilizing vacuum trucks. A Hydrovac was utilized to locate the leak so XTO could move forward with line repairs. Excavated area has been fenced as a precautionary safety measure. The release flowed to the topographic depression (i.e. caliche pit closure) resulting in its containment.	
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 Supervisor_____
Signature: <u>Shelby E Pennington</u> _____	Date: 09-27-2018_____
email: shelby_pennington@xtoenergy.com_____	Telephone: (281) 723-9353_____
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (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: <i>Each of the following items must be included in the report.</i> ☐ 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.

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____
Signature: _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

☐ Detailed description of proposed remediation technique

☐ Scaled sitemap with GPS coordinates showing delineation points

☐ Estimated volume of material to be remediated

☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____

Title: _____

Signature: _____

Date: _____

email: _____

Telephone: _____

OCD Only

Received by: _____

Date: _____

☐ Approved

☐ Approved with Attached Conditions of Approval

☐ Denied

☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities*

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

Printed Name: Shelby Pennington Title: _____
 Signature: Shelby Pennington Date: 06/19/2019
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

*Note: Since the produced water released had a relatively low concentration of chlorides (approximately 5,045 mg/L) as shown in the report and attached source water characterization document, remedial activities beyond the removal of free liquids and replacement of the affected soil near the leaking injection line were not applicable to this site. Confirmation sampling demonstrated that chloride concentrations in soil and caliche were less than the 20,000 mg/Kg limit applied to soils where the boundary of impact to groundwater is greater than 100 feet below ground surface. In addition, confirmation soil sampling also showed that concentrations of chlorides were less than the 600 mg/Kg limit utilized for delineation purposes at all locations sampled.

XTO Energy, Inc.
Seven Rivers Queen – Injection Line Release 09-13-2018
32.41861°N, -103.27083°W

Form C-141 Supplement

The following additional assessment data is being provided as requested on page 2 of the NMOCD's new Form C-141 (rev. 09-2018) - *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.*

On behalf of XTO Energy, Sport Environmental Services, LLC (environmental consultant) performed additional assessment efforts at the release site on 09-18-2018. Attached please find a Release Impact Area Map that was generated with Garmin GPSMap 64st. The visual surface impact area was calculated to be 18,841 sq. ft. (0.43 acres) and is demarcated at the release site with white flags. Please refer to **Attachment A**.

In addition, site photographs and drone aerial imagery were also obtained of the release site on 09-18-2018. These images will provide a better understanding of the site and how the release path overlays a reported caliche pit closure consisting of disturbed, homogenous soils. Please refer to **Attachment B**.

Finally, initial site characterization was performed solely for the purpose of determining initial contamination depths and concentrations at the release site. A sample location map and associated analytical results are included within this supplement. Please refer to **Attachment C**.

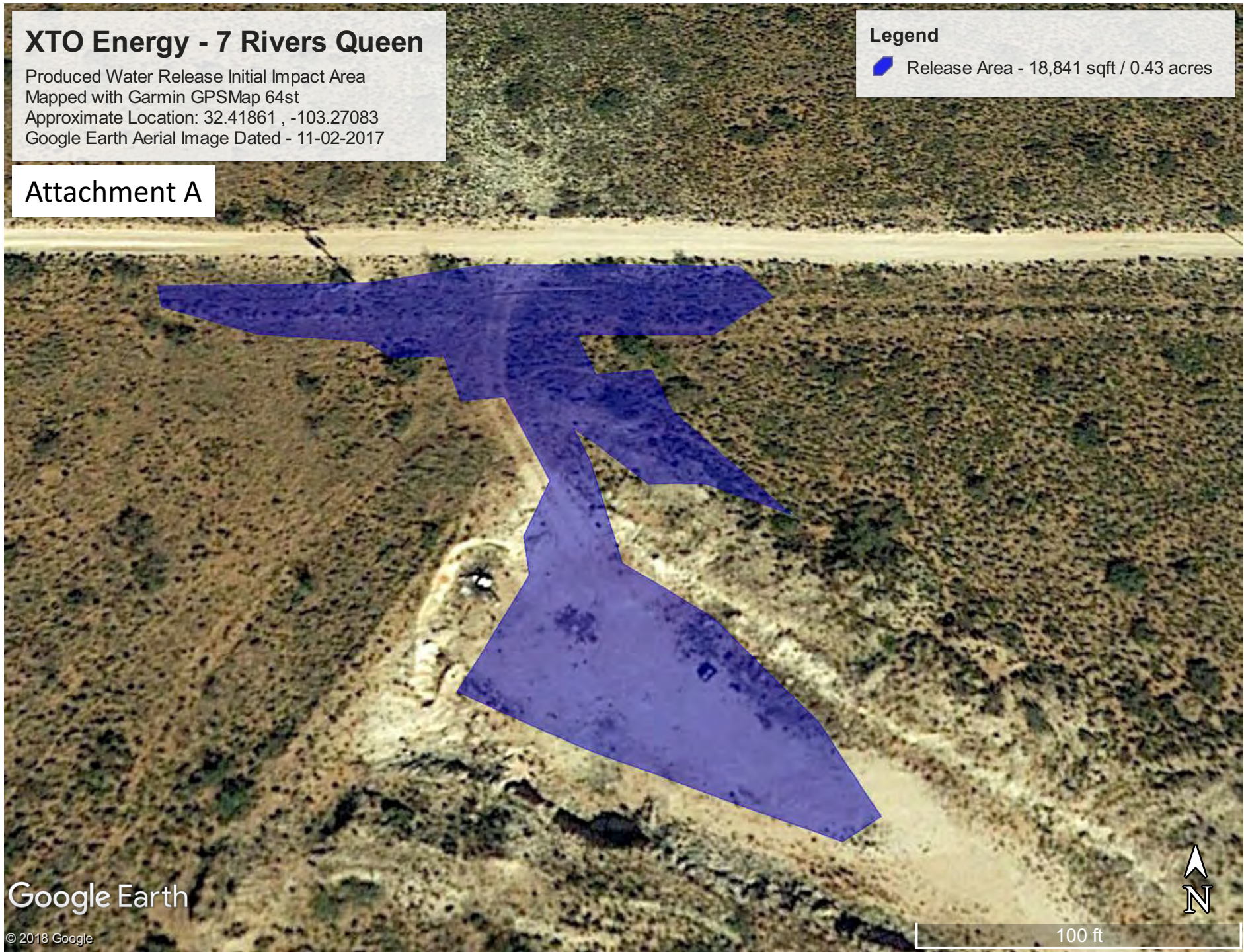
XTO Energy - 7 Rivers Queen

Produced Water Release Initial Impact Area
Mapped with Garmin GPSMap 64st
Approximate Location: 32.41861 , -103.27083
Google Earth Aerial Image Dated - 11-02-2017

Legend

 Release Area - 18,841 sqft / 0.43 acres

Attachment A



Photographic Documentation Confirming Release Containment

Aerial Imagery Captured with DJI Phantom 4 Pro on September 18, 2018 (FAA Registration #: FA33CWXHMA)



XTO Energy, Inc.
Seven Rivers Queen (Produced Water Release)
Attachment B



Release Point: 32.418682°, -103.270776°

Release has been stopped and the area surrounding the excavation has been marked with caution tape.

XTO Energy - 7 Rivers Queen

Produced Water Release - Initial Site Characterization
Approximate Location: 32.41861 , -103.27083
Google Earth Aerial Image Dated - 11-02-2017

Attachment C

Legend

-  7 Rivers Queen - Release Area - 18,841 sqft / 0.43 acres
-  North Release Path - 10pt Comp.
-  Release Point (4' bgs)
-  Release Point EF - 5pt Comp. - (3' bgs)
-  South Release Path - 5pt Comp.
-  South Release Path Low Spot (10" bgs)

Analysis Requested	Lab ID:	599523-001	599523-002	599523-003	599523-004	599523-005
	Field ID:	Release Point EF-3' bgs (4' bgs)	Release Point-4' bgs (4' bgs)	North Release Path (10pt) Compound Release Path (10pt) Compound Release Path Low Spot		
	Depth:	3- ft	4- ft	0-4 in	0-4 in	10- in
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-18-18 08:25	Sep-18-18 09:05	Sep-18-18 08:40	Sep-18-18 09:15	Sep-18-18 09:25
BTXN by EPA 8021	Extracted:	Sep-20-18 09:15	Sep-20-18 09:15	Sep-20-18 09:15	Sep-20-18 09:15	Sep-20-18 09:15
	Analyzed:	Sep-20-18 21:03	Sep-20-18 21:24	Sep-20-18 22:25	Sep-20-18 21:44	Sep-20-18 22:04
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	RL:	RL	RL	RL	RL	RL
Benzene		<0.000386	<0.000387	<0.000383	<0.000388	<0.000386
Toluene		<0.000437	<0.000438	<0.000437	<0.000439	<0.000437
Ethylbenzene		<0.000438	<0.000439	<0.000438	<0.000439	<0.000437
m,p-Xylenes		<0.001032	<0.001033	<0.001032	<0.001033	<0.001032
o-Xylene		0.00284	0.00284	0.00222	0.00284	0.00284
Total Xylenes		0.00284	0.00284	0.00222	0.00284	0.00284
Total BTXN		0.00284	0.00284	0.00222	0.00284	0.00284
Inorganic Anions by EPA 300	Extracted:	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00
	Analyzed:	Sep-24-18 11:02	Sep-24-18 14:29	Sep-24-18 14:35	Sep-24-18 14:40	Sep-24-18 14:46
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	RL:	RL	RL	RL	RL	RL
Chloride		808	495	3250	495	461
TPH by SW8016 Mod	Extracted:	Sep-21-18 09:00	Sep-21-18 09:00	Sep-21-18 09:00	Sep-21-18 09:00	Sep-21-18 09:00
	Analyzed:	Sep-21-18 14:19	Sep-21-18 14:39	Sep-21-18 14:39	Sep-21-18 15:19	Sep-21-18 15:18
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	RL:	RL	RL	RL	RL	RL
Gasoline Range Hydrocarbons		<7.99	<7.97	13.13	9.05	<7.98
Distillate Range Organics		13.8	25.4	612	211	9.27
Oil Range Hydrocarbons		<8.11	<8.10	14.0	<8.11	<8.10
Total TPH		13.8	25.4	639	230	9.27

Google Earth

© 2018, Google



100 ft



Certificate of Analysis Summary 599523

Sport Environmental Services, LLC, Midland, TX



Project Id: 8015
Contact: Debi Moore
Project Location: Lea County, New Mexico

Project Name: XTO Energy-7 Rivers Queen- Initial Release Characterization

Date Received in Lab: Wed Sep-19-18 09:35 am

Report Date: 27-SEP-18

Project Manager: Brandi Ritcherson

Analysis Requested	Lab Id:	599523-001		599523-002		599523-003		599523-004		599523-005			
	Field Id:	Release Point EF-3' bgs- (5p		Release Point- 4' bgs- (Grab		North Release Path-(10pt Cos		South Release Path-(10pt Cos		South Release Path Low Spo			
	Depth:	3- ft		4- ft		0-4 In		0-4 In		10- In			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL			
	Sampled:	Sep-18-18 08:25		Sep-18-18 09:05		Sep-18-18 08:40		Sep-18-18 09:15		Sep-18-18 09:25			
BTEX by EPA 8021		Extracted:	Sep-20-18 09:15		Sep-20-18 09:15		Sep-20-18 09:15		Sep-20-18 09:15		Sep-20-18 09:15		
		Analyzed:	Sep-20-18 21:03		Sep-20-18 21:24		Sep-20-18 22:25		Sep-20-18 21:44		Sep-20-18 22:04		
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene			<0.000386	0.00200	<0.000387	0.00201	<0.000383	0.00199	<0.000388	0.00202	<0.000386	0.00201	
Toluene			<0.000457	0.00200	<0.000458	0.00201	0.000667 J	0.00199	<0.000459	0.00202	<0.000457	0.00201	
Ethylbenzene			<0.000566	0.00200	<0.000568	0.00201	0.00206	0.00199	<0.000569	0.00202	<0.000567	0.00201	
m,p-Xylenes			<0.00102	0.00401	<0.00102	0.00402	0.00608	0.00398	<0.00102	0.00403	<0.00102	0.00402	
o-Xylene			0.00284	0.00200	<0.000346	0.00201	0.00222	0.00199	<0.000347	0.00202	<0.000346	0.00201	
Total Xylenes			0.00284	0.00200	<0.000346	0.00201	0.00830	0.00199	<0.000347	0.00202	<0.000346	0.00201	
Total BTEX			0.00284	0.00200	<0.000346	0.00201	0.0110	0.00199	<0.000347	0.00202	<0.000346	0.00201	
Inorganic Anions by EPA 300		Extracted:	Sep-24-18 09:00		Sep-24-18 09:00		Sep-24-18 09:00		Sep-24-18 09:00		Sep-24-18 09:00		
		Analyzed:	Sep-24-18 11:02		Sep-24-18 14:29		Sep-24-18 14:35		Sep-24-18 14:40		Sep-24-18 14:46		
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride			808	4.95	589	4.99	3250	24.9	6790	49.8	461	5.03	
TPH by SW8015 Mod		Extracted:	Sep-21-18 09:00		Sep-21-18 09:00		Sep-21-18 09:00		Sep-21-18 09:00		Sep-21-18 09:00		
		Analyzed:	Sep-21-18 14:19		Sep-21-18 14:39		Sep-21-18 14:59		Sep-21-18 15:19		Sep-21-18 15:38		
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons			<7.99	15.0	<7.97	14.9	13.1 J	15.0	9.05 J	15.0	<7.98	15.0	
Diesel Range Organics			13.8 J	15.0	25.4	14.9	612	15.0	211	15.0	9.27 J	15.0	
Oil Range Hydrocarbons			<8.11	15.0	<8.10	14.9	14.0 J	15.0	<8.11	15.0	<8.10	15.0	
Total TPH			13.8 J	15.0	25.4	14.9	639	15.0	220	15.0	9.27 J	15.0	

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

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

Brandi Ritcherson
Project Manager

Analytical Report 599523

for

Sport Environmental Services, LLC

Project Manager: Debi Moore

XTO Energy-7 Rivers Queen- Initial Release Characterization

27-SEP-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)

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Explanation of Qualifiers (Flags)	17
Summary of Quality control	18
Chain of Custody	20
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27-SEP-18

Project Manager: **Debi Moore**
Sport Environmental Services, LLC
502 North Big Spring Street
Midland, TX 79701

Reference: XENCO Report No(s): **599523**
XTO Energy-7 Rivers Queen- Initial Release Characterization
Project Address: Lea County, New Mexico

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) 599523. 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. 599523 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,

Brandi Ritcherson

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 599523



Sport Environmental Services, LLC, Midland, TX

XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Release Point EF-3' bgs- (5pt Comp.)	S	09-18-18 08:25	3 ft	599523-001
Release Point- 4' bgs- (Grab)	S	09-18-18 09:05	4 ft	599523-002
North Release Path-(10pt Comp)	S	09-18-18 08:40	0 - 4 In	599523-003
South Release Path-(10pt Comp)	S	09-18-18 09:15	0 - 4 In	599523-004
South Release Path Low Spot (Grab)	S	09-18-18 09:25	10 In	599523-005



CASE NARRATIVE

Client Name: Sport Environmental Services, LLC

Project Name: XTO Energy-7 Rivers Queen- Initial Release Characterization

Project ID: 8015
Work Order Number(s): 599523

Report Date: 27-SEP-18
Date Received: 09/19/2018

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:

1.001 Corrected sample depth on sample 599523-005 to 10" per COC.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3064013 BTEX by EPA 8021

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

Lab Sample ID 599457-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 599457-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Ethylbenzene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 599457-001, -002, -003, -004, -005, -006, -007, -008, -009, -010



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **Release Point EF-3' bgs- (5pt Comp.)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-001 Date Collected: 09.18.18 08.25 Sample Depth: 3 ft
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.24.18 09.00 Basis: Wet Weight
Seq Number: 3064242

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	808	4.95	0.850	mg/kg	09.24.18 11.02		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.18 09.00 Basis: Wet Weight
Seq Number: 3064205

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<7.99	15.0	7.99	mg/kg	09.21.18 14.19	U	1
Diesel Range Organics	C10C28DRO	13.8	15.0	8.11	mg/kg	09.21.18 14.19	J	1
Oil Range Hydrocarbons	PHCG2835	<8.11	15.0	8.11	mg/kg	09.21.18 14.19	U	1
Total TPH	PHC635	13.8	15.0	7.99	mg/kg	09.21.18 14.19	J	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	106	%	70-135	09.21.18 14.19			
o-Terphenyl	84-15-1	106	%	70-135	09.21.18 14.19			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **Release Point EF-3' bgs- (5pt Comp.)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-001 Date Collected: 09.18.18 08.25 Sample Depth: 3 ft
Analytical Method: BTEX by EPA 8021 Prep Method: SW5030B
Tech: ALJ % Moisture:
Analyst: ALJ Date Prep: 09.20.18 09.15 Basis: Wet Weight
Seq Number: 3064013

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000386	0.00200	0.000386	mg/kg	09.20.18 21.03	U	1
Toluene	108-88-3	<0.000457	0.00200	0.000457	mg/kg	09.20.18 21.03	U	1
Ethylbenzene	100-41-4	<0.000566	0.00200	0.000566	mg/kg	09.20.18 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00401	0.00102	mg/kg	09.20.18 21.03	U	1
o-Xylene	95-47-6	0.00284	0.00200	0.000345	mg/kg	09.20.18 21.03		1
Total Xylenes	1330-20-7	0.00284	0.00200	0.000345	mg/kg	09.20.18 21.03		1
Total BTEX		0.00284	0.00200	0.000345	mg/kg	09.20.18 21.03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	154	%	70-130	09.20.18 21.03	**		
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.20.18 21.03			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **Release Point- 4' bgs- (Grab)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-002 Date Collected: 09.18.18 09.05 Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.24.18 09.00 Basis: Wet Weight
Seq Number: 3064242

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	589	4.99	0.857	mg/kg	09.24.18 14.29		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.18 09.00 Basis: Wet Weight
Seq Number: 3064205

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<7.97	14.9	7.97	mg/kg	09.21.18 14.39	U	1
Diesel Range Organics	C10C28DRO	25.4	14.9	8.10	mg/kg	09.21.18 14.39		1
Oil Range Hydrocarbons	PHCG2835	<8.10	14.9	8.10	mg/kg	09.21.18 14.39	U	1
Total TPH	PHC635	25.4	14.9	7.97	mg/kg	09.21.18 14.39		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	105	%	70-135	09.21.18 14.39			
o-Terphenyl	84-15-1	107	%	70-135	09.21.18 14.39			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **Release Point- 4' bgs- (Grab)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-002 Date Collected: 09.18.18 09.05 Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021 Prep Method: SW5030B
Tech: ALJ % Moisture:
Analyst: ALJ Date Prep: 09.20.18 09.15 Basis: Wet Weight
Seq Number: 3064013

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000387	0.00201	0.000387	mg/kg	09.20.18 21.24	U	1
Toluene	108-88-3	<0.000458	0.00201	0.000458	mg/kg	09.20.18 21.24	U	1
Ethylbenzene	100-41-4	<0.000568	0.00201	0.000568	mg/kg	09.20.18 21.24	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00402	0.00102	mg/kg	09.20.18 21.24	U	1
o-Xylene	95-47-6	<0.000346	0.00201	0.000346	mg/kg	09.20.18 21.24	U	1
Total Xylenes	1330-20-7	<0.000346	0.00201	0.000346	mg/kg	09.20.18 21.24	U	1
Total BTEX		<0.000346	0.00201	0.000346	mg/kg	09.20.18 21.24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	154	%	70-130	09.20.18 21.24	**		
1,4-Difluorobenzene	540-36-3	91	%	70-130	09.20.18 21.24			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **North Release Path-(10pt Comp)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-003 Date Collected: 09.18.18 08.40 Sample Depth: 0 - 4 In
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.24.18 09.00 Basis: Wet Weight
Seq Number: 3064242

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3250	24.9	4.27	mg/kg	09.24.18 14.35		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.18 09.00 Basis: Wet Weight
Seq Number: 3064205

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	13.1	15.0	8.00	mg/kg	09.21.18 14.59	J	1
Diesel Range Organics	C10C28DRO	612	15.0	8.13	mg/kg	09.21.18 14.59		1
Oil Range Hydrocarbons	PHCG2835	14.0	15.0	8.13	mg/kg	09.21.18 14.59	J	1
Total TPH	PHC635	639	15.0	8.00	mg/kg	09.21.18 14.59		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	109	%	70-135	09.21.18 14.59			
o-Terphenyl	84-15-1	120	%	70-135	09.21.18 14.59			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **North Release Path-(10pt Comp)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-003 Date Collected: 09.18.18 08.40 Sample Depth: 0 - 4 In
Analytical Method: BTEX by EPA 8021 Prep Method: SW5030B
Tech: ALJ % Moisture:
Analyst: ALJ Date Prep: 09.20.18 09.15 Basis: Wet Weight
Seq Number: 3064013

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	09.20.18 22.25	U	1
Toluene	108-88-3	0.000667	0.00199	0.000454	mg/kg	09.20.18 22.25	J	1
Ethylbenzene	100-41-4	0.00206	0.00199	0.000563	mg/kg	09.20.18 22.25		1
m,p-Xylenes	179601-23-1	0.00608	0.00398	0.00101	mg/kg	09.20.18 22.25		1
o-Xylene	95-47-6	0.00222	0.00199	0.000343	mg/kg	09.20.18 22.25		1
Total Xylenes	1330-20-7	0.00830	0.00199	0.000343	mg/kg	09.20.18 22.25		1
Total BTEX		0.0110	0.00199	0.000343	mg/kg	09.20.18 22.25		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86		%	70-130	09.20.18 22.25		
4-Bromofluorobenzene	460-00-4	129		%	70-130	09.20.18 22.25		



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **South Release Path-(10pt Comp)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-004 Date Collected: 09.18.18 09.15 Sample Depth: 0 - 4 In
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.24.18 09.00 Basis: Wet Weight
Seq Number: 3064242

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6790	49.8	8.55	mg/kg	09.24.18 14.40		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.18 09.00 Basis: Wet Weight
Seq Number: 3064205

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	9.05	15.0	7.99	mg/kg	09.21.18 15.19	J	1
Diesel Range Organics	C10C28DRO	211	15.0	8.11	mg/kg	09.21.18 15.19		1
Oil Range Hydrocarbons	PHCG2835	<8.11	15.0	8.11	mg/kg	09.21.18 15.19	U	1
Total TPH	PHC635	220	15.0	7.99	mg/kg	09.21.18 15.19		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	104	%	70-135	09.21.18 15.19			
o-Terphenyl	84-15-1	119	%	70-135	09.21.18 15.19			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **South Release Path-(10pt Comp)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-004 Date Collected: 09.18.18 09.15 Sample Depth: 0 - 4 In
Analytical Method: BTEX by EPA 8021 Prep Method: SW5030B
Tech: ALJ % Moisture:
Analyst: ALJ Date Prep: 09.20.18 09.15 Basis: Wet Weight
Seq Number: 3064013

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000388	0.00202	0.000388	mg/kg	09.20.18 21.44	U	1
Toluene	108-88-3	<0.000459	0.00202	0.000459	mg/kg	09.20.18 21.44	U	1
Ethylbenzene	100-41-4	<0.000569	0.00202	0.000569	mg/kg	09.20.18 21.44	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00403	0.00102	mg/kg	09.20.18 21.44	U	1
o-Xylene	95-47-6	<0.000347	0.00202	0.000347	mg/kg	09.20.18 21.44	U	1
Total Xylenes	1330-20-7	<0.000347	0.00202	0.000347	mg/kg	09.20.18 21.44	U	1
Total BTEX		<0.000347	0.00202	0.000347	mg/kg	09.20.18 21.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.20.18 21.44			
4-Bromofluorobenzene	460-00-4	153	%	70-130	09.20.18 21.44	**		



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **South Release Path Low Spot (Grab)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-005 Date Collected: 09.18.18 09.25 Sample Depth: 10 In
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.24.18 09.00 Basis: Wet Weight
Seq Number: 3064242

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	461	5.03	0.864	mg/kg	09.24.18 14.46		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.18 09.00 Basis: Wet Weight
Seq Number: 3064205

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<7.98	15.0	7.98	mg/kg	09.21.18 15.38	U	1
Diesel Range Organics	C10C28DRO	9.27	15.0	8.10	mg/kg	09.21.18 15.38	J	1
Oil Range Hydrocarbons	PHCG2835	<8.10	15.0	8.10	mg/kg	09.21.18 15.38	U	1
Total TPH	PHC635	9.27	15.0	7.98	mg/kg	09.21.18 15.38	J	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	105	%	70-135	09.21.18 15.38			
o-Terphenyl	84-15-1	107	%	70-135	09.21.18 15.38			



Certificate of Analytical Results 599523



Sport Environmental Services, LLC, Midland, TX XTO Energy-7 Rivers Queen- Initial Release Characterization

Sample Id: **South Release Path Low Spot (Grab)** Matrix: Soil Date Received: 09.19.18 09.35
Lab Sample Id: 599523-005 Date Collected: 09.18.18 09.25 Sample Depth: 10 In
Analytical Method: BTEX by EPA 8021 Prep Method: SW5030B
Tech: ALJ % Moisture:
Analyst: ALJ Date Prep: 09.20.18 09.15 Basis: Wet Weight
Seq Number: 3064013

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000386	0.00201	0.000386	mg/kg	09.20.18 22.04	U	1
Toluene	108-88-3	<0.000457	0.00201	0.000457	mg/kg	09.20.18 22.04	U	1
Ethylbenzene	100-41-4	<0.000567	0.00201	0.000567	mg/kg	09.20.18 22.04	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00402	0.00102	mg/kg	09.20.18 22.04	U	1
o-Xylene	95-47-6	<0.000346	0.00201	0.000346	mg/kg	09.20.18 22.04	U	1
Total Xylenes	1330-20-7	<0.000346	0.00201	0.000346	mg/kg	09.20.18 22.04	U	1
Total BTEX		<0.000346	0.00201	0.000346	mg/kg	09.20.18 22.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	168	%	70-130	09.20.18 22.04	**		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.20.18 22.04			

- 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



Sport Environmental Services, LLC
XTO Energy-7 Rivers Queen- Initial Release Characterization

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3064242

Matrix: Solid

Prep Method: E300P

MB Sample Id: 7662842-1-BLK

LCS Sample Id: 7662842-1-BKS

Date Prep: 09.24.18

LCSD Sample Id: 7662842-1-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	255	102	255	102	90-110	0	20	mg/kg	09.24.18 10:04	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3064242

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 599366-001

MS Sample Id: 599366-001 S

Date Prep: 09.24.18

MSD Sample Id: 599366-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.860	251	249	99	248	99	90-110	0	20	mg/kg	09.24.18 15:03	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3064242

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 599515-079

MS Sample Id: 599515-079 S

Date Prep: 09.24.18

MSD Sample Id: 599515-079 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	47.2	250	325	111	325	111	90-110	0	20	mg/kg	09.24.18 10:29	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3064205

Matrix: Solid

Prep Method: TX1005P

MB Sample Id: 7662829-1-BLK

LCS Sample Id: 7662829-1-BKS

Date Prep: 09.21.18

LCSD Sample Id: 7662829-1-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	<8.00	1000	983	98	929	93	70-135	6	20	mg/kg	09.21.18 11:21	
Diesel Range Organics	<8.13	1000	970	97	914	91	70-135	6	20	mg/kg	09.21.18 11:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		127		118		70-135	%	09.21.18 11:21
o-Terphenyl	112		115		104		70-135	%	09.21.18 11:21

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



Sport Environmental Services, LLC
XTO Energy-7 Rivers Queen- Initial Release Characterization

Analytical Method: TPH by SW8015 Mod

Seq Number: 3064205

Parent Sample Id: 599389-001

Matrix: Soil

MS Sample Id: 599389-001 S

Prep Method: TX1005P

Date Prep: 09.21.18

MSD Sample Id: 599389-001 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	<7.98	997	938	94	951	95	70-135	1	20	mg/kg	09.21.18 12:20	
Diesel Range Organics	<8.10	997	960	96	977	98	70-135	2	20	mg/kg	09.21.18 12:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		124		70-135	%	09.21.18 12:20
o-Terphenyl	115		108		70-135	%	09.21.18 12:20

Analytical Method: BTEX by EPA 8021

Seq Number: 3064013

MB Sample Id: 7662760-1-BLK

Matrix: Solid

LCS Sample Id: 7662760-1-BKS

Prep Method: SW5030B

Date Prep: 09.20.18

LCSD Sample Id: 7662760-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000388	0.101	0.0822	81	0.0881	88	70-130	7	35	mg/kg	09.20.18 09:42	
Toluene	<0.000459	0.101	0.0841	83	0.0889	89	70-130	6	35	mg/kg	09.20.18 09:42	
Ethylbenzene	<0.000569	0.101	0.0910	90	0.0954	95	70-130	5	35	mg/kg	09.20.18 09:42	
m,p-Xylenes	<0.00102	0.202	0.178	88	0.186	93	70-130	4	35	mg/kg	09.20.18 09:42	
o-Xylene	<0.000347	0.101	0.0870	86	0.0913	91	70-130	5	35	mg/kg	09.20.18 09:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		94		70-130	%	09.20.18 09:42
4-Bromofluorobenzene	113		119		118		70-130	%	09.20.18 09:42

Analytical Method: BTEX by EPA 8021

Seq Number: 3064013

Parent Sample Id: 599457-001

Matrix: Soil

MS Sample Id: 599457-001 S

Prep Method: SW5030B

Date Prep: 09.20.18

MSD Sample Id: 599457-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0502	50	0.0494	29	70-130	2	35	mg/kg	09.20.18 10:22	X
Toluene	<0.000457	0.100	0.0449	45	0.0363	22	70-130	21	35	mg/kg	09.20.18 10:22	X
Ethylbenzene	<0.000566	0.100	0.0410	41	0.0274	16	70-130	40	35	mg/kg	09.20.18 10:22	XF
m,p-Xylenes	<0.00102	0.200	0.0785	39	0.0521	15	70-130	40	35	mg/kg	09.20.18 10:22	XF
o-Xylene	<0.000345	0.100	0.0387	39	0.0263	16	70-130	38	35	mg/kg	09.20.18 10:22	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		93		70-130	%	09.20.18 10:22
4-Bromofluorobenzene	120		118		70-130	%	09.20.18 10:22

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



Phoenix, Arizona (480-355-0900)

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

1.001



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Sport Environmental Services, LLC

Date/ Time Received: 09/19/2018 09:35:00 AM

Work Order #: 599523

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)?	5.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	No
#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)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 09/19/2018

Checklist reviewed by:

Brandi Ritcherson

Date: 09/20/2018

Oil or Water Spill TO SOIL Volume Spreadsheet

Calculator Updated 11/17/2015

INPUT FIELDS
OUTPUT
RESULT

Location:	7 Rivers
GPS Coordinates:	
Spill Date:	9/13/2018
Spill Time:	12:00

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

Length of Spill=		feet
Width of Spill=		feet
Saturation (or depth) of Spill=		inches

OR

Area=	17,300.00	ft ²
Saturation (or depth) of Spill=	4.00	inches

OR

Soil Volume=		yd ³
--------------	--	-----------------

Oil Cut=	-	% Oil
Porosity Factor=	0.20	

Soil Volume=	213.58	yd ³
Total Oil in Soil=	-	barrels
Total Produced Water in Soil=	205.41	barrels

Volume Picked up	660.00	bbls
------------------	--------	------

TOTAL VOLUME OF LEAK (SOAK AND RECOVERED)

Total Oil=	-	barrels
Total Produced Water=	865.41	barrels

TOTAL VOLUME RECOVERED

Total Oil=	-	barrels
Total Produced Water=	660.00	barrels

RRC NOTIFICATION REQUIREMENTS

OIL LEAK => 5 BBLS

WATER LEAK =>30 BBLS

Take Photos of spill before cleanup

Make Sketch of Spill Area

STEP 1
USED TO
CALCULATE
SOAK INTO THE
GROUND. ONLY
USE ONE
METHOD

STEP 2
INPUT OIL CUT
AND POROSITY
FROM ABOVE
CHART

STEP 3
INPUT VOLUME
VAC TRUCK
RECOVERED

Attachment C
Site Plan with Depth and Chloride Concentration Data

XTO Energy, Inc - Seven Rivers Queen (1RP-5218)

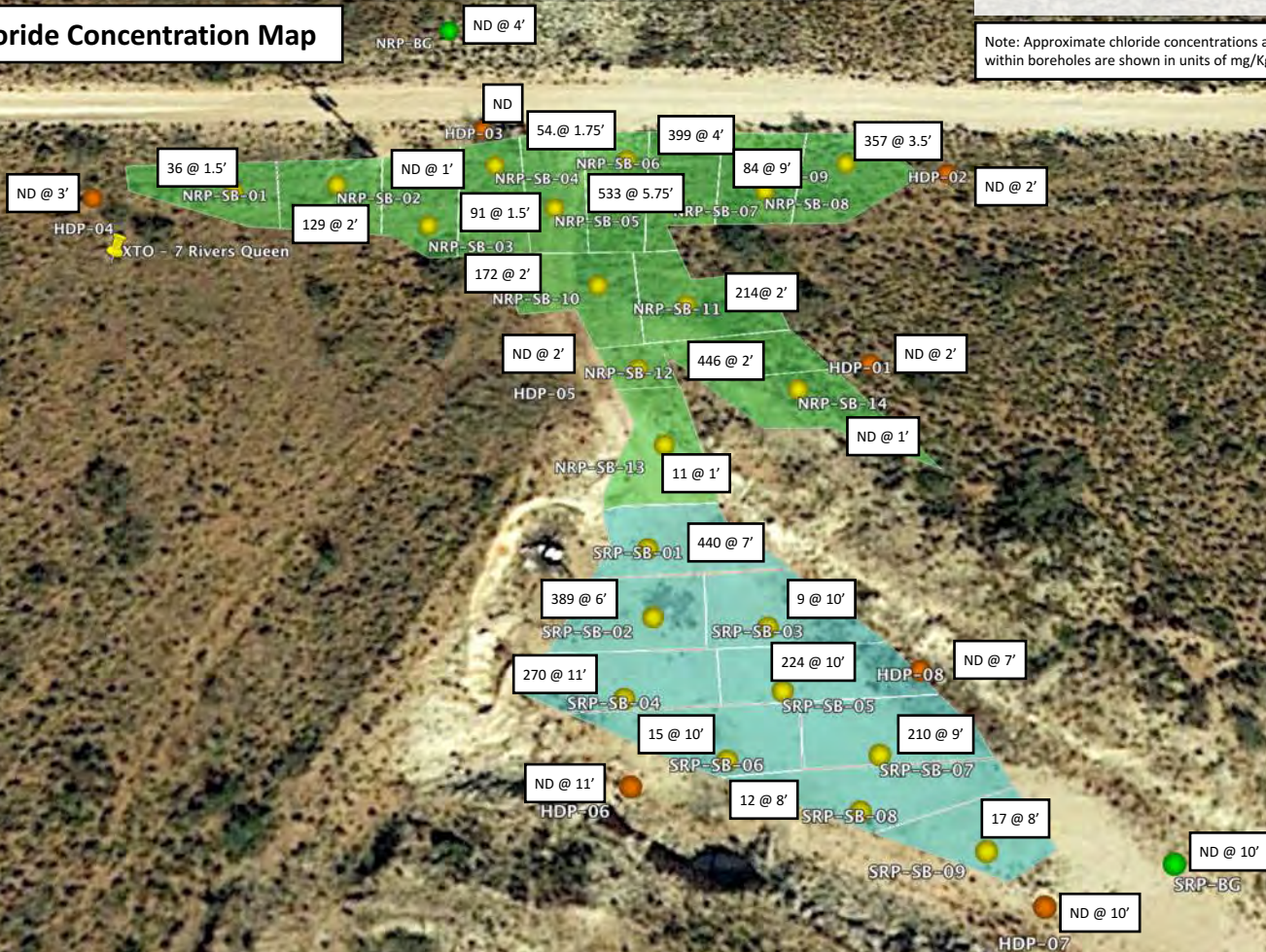
Approximate Location: 32.41861, -103.27083 (Affected Area: approx. 18,841 square feet)
Release of approximately 865 BBL of produced water with 660 BBL recovered. Net loss of approximately 205 BBL produced water on September 13, 2018. Produced water source had chloride concentrations less than 10,000 ppm.
North Release Path subject to NMOCD jurisdiction. South Release Path subject to SLO.
Aerial Imagery dated: August 10, 2016

Legend

- Background Soil Boring
- Horizontal Delineation Point (HDP) Boring
- ▭ North Release Path (NRP) Affected Area
- Soil Boring
- ▭ South Release Path (SRP) Affected Area

Depth & Chloride Concentration Map

Note: Approximate chloride concentrations associated with deepest sample location within boreholes are shown in units of mg/Kg of soil.



Google Earth

© 2018 Google



1000 ft

Attachment D

Source Water Analysis

Complete Water Analysis Report

Customer: **XTO ENERGY INC**
 Region: **Eunice, NM**
 Location: **Arrowhead Grayburg Unit (AGU)**
 System: **Production System**

Equipment: **AGU-CTB**
 Sample Point: **Injection Pump Discharge**
 Sample ID: **AL22018**
 Acct Rep Email: **Michael.McNatt@ecolab.com**

Collection Date: **07/12/2018**
 Receive Date: **07/19/2018**
 Report Date: **07/20/2018**
 Location Code: **312414**

Field Analysis

Bicarbonate	817.4 mg/L	Dissolved CO2	370 mg/L	Dissolved H2S	461.7 mg/L
Pressure Surface	20 psi	Temperature	92 ° F	pH of Water	7.7
Oil per Day	271 B/D	Gas per Day	0 Mcf/D	Water per Day	42817 B/D

Sample Analysis

Calculated Gaseous CO2	0.11 %	Calculated pH	7.70	Conductivity (Calculated)	15298 µS - cm3
Ionic Strength	0.19	Resistivity	0.654 ohms - m	Specific Gravity	1.008
Total Dissolved Solids	9790.766 mg/L				

Cations

Iron	0.136 mg/L	Manganese	0.011 mg/L	Barium	0.222 mg/L
Strontium	14.2 mg/L	Calcium	495 mg/L	Magnesium	204 mg/L
Sodium	2760.00 mg/L	Potassium	131 mg/L	Boron	2.75 mg/L
Lithium	Not Detected mg/L	Copper	0.004 mg/L	Nickel	Not Detected mg/L
Zinc	0.008 mg/L	Lead	0.041 mg/L	Cobalt	0.016 mg/L
Chromium	0.003 mg/L	Silicon	6.18 mg/L	Aluminum	0.025 mg/L
Molybdenum	0.002 mg/L	Phosphorus	0.172 mg/L		

Anions

Bromide	13.613 mg/L	Chloride	5045 mg/L	Sulfate	454.679 mg/L
---------	-------------	----------	-----------	---------	--------------

PTB Value

	Barite PTB	Calcite PTB	Celestite PTB	Gypsum PTB	Halite PTB	Iron Carbonate PTB	Iron Sulfide PTB
50°	0.11	23.59	0.00	0.00	0.00	0.00	0.07
75°	0.10	21.89	0.00	0.00	0.00	0.00	0.07
100°	0.08	21.23	0.00	0.00	0.00	0.00	0.07
125°	0.05	21.74	0.00	0.00	0.00	0.00	0.07
150°	0.02	23.41	0.00	0.00	0.00	0.00	0.07
175°	0.00	26.06	0.00	0.00	0.00	0.00	0.07
200°	0.00	29.40	0.00	0.00	0.00	0.00	0.07
225°	0.00	33.10	0.00	0.00	0.00	0.00	0.07
250°	0.00	36.82	0.00	0.00	0.00	0.00	0.07
275°	0.00	40.24	0.00	0.00	0.00	0.00	0.07
300°	0.00	43.14	0.00	0.00	0.00	0.00	0.07
325°	0.00	45.40	0.00	0.00	0.00	0.00	0.07
350°	0.00	47.03	1.87	0.00	0.00	0.00	0.07
375°	0.00	48.13	3.80	0.00	0.00	0.00	0.07
400°	0.00	164.15	5.32	0.00	0.00	0.00	0.07

Saturation Index

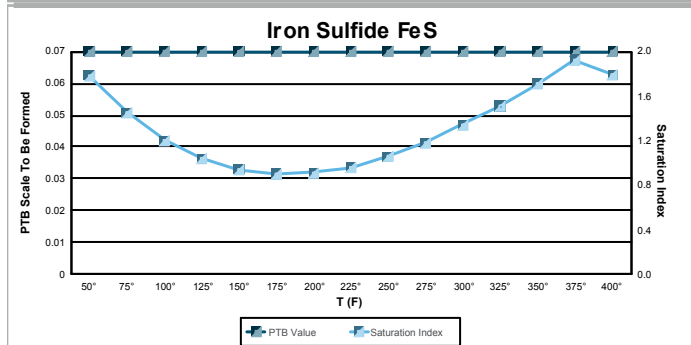
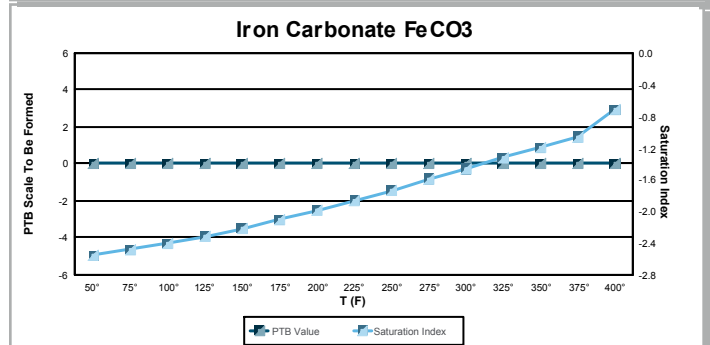
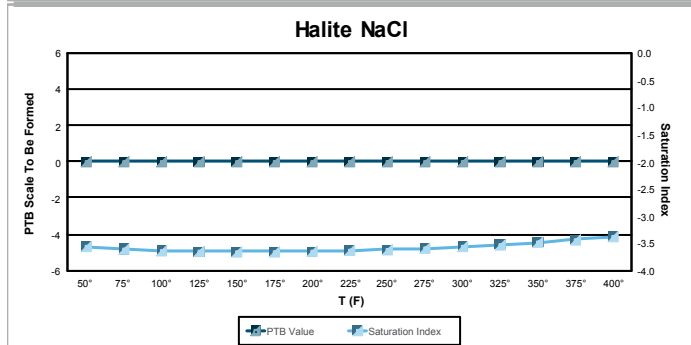
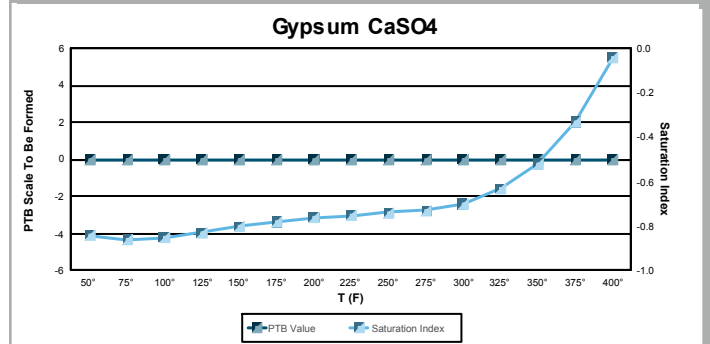
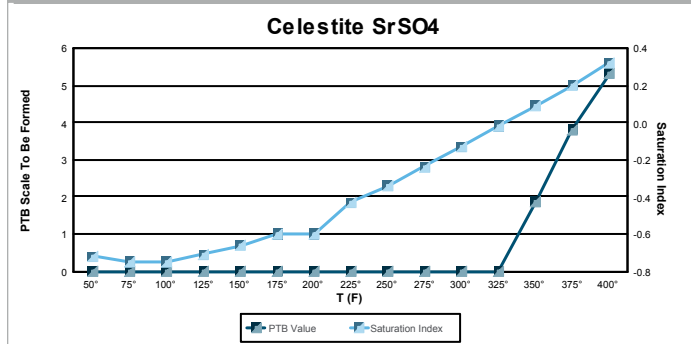
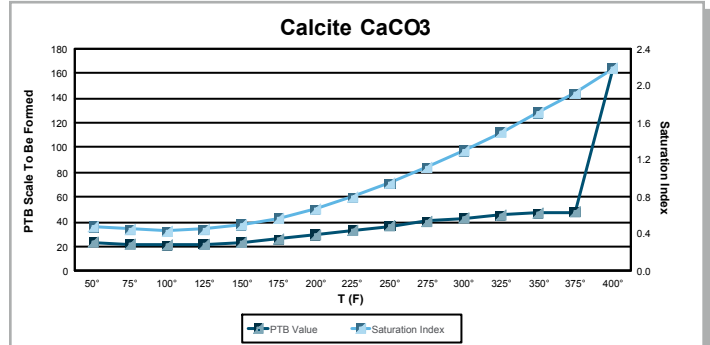
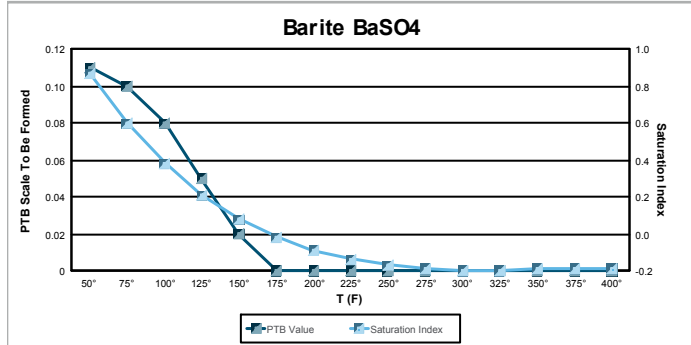
	Barite SI	Calcite SI	Celestite SI	Gypsum SI	Halite SI	Iron Carbonate SI	Iron Sulfide SI
50°	0.87	0.48	-0.72	-0.84	-3.56	-2.56	1.78
75°	0.60	0.45	-0.75	-0.86	-3.61	-2.49	1.45
100°	0.38	0.43	-0.75	-0.85	-3.64	-2.41	1.20
125°	0.21	0.45	-0.71	-0.83	-3.65	-2.32	1.04
150°	0.08	0.50	-0.66	-0.80	-3.66	-2.22	0.94
175°	-0.02	0.57	-0.60	-0.78	-3.66	-2.11	0.90
200°	-0.09	0.67	-0.60	-0.76	-3.65	-1.99	0.91
225°	-0.14	0.80	-0.43	-0.75	-3.63	-1.87	0.96
250°	-0.17	0.95	-0.34	-0.74	-3.62	-1.74	1.06
275°	-0.19	1.12	-0.24	-0.73	-3.59	-1.60	1.18
300°	-0.20	1.30	-0.13	-0.70	-3.56	-1.47	1.34
325°	-0.20	1.50	-0.02	-0.63	-3.53	-1.33	1.51
350°	-0.19	1.71	0.09	-0.52	-3.48	-1.20	1.71
375°	-0.19	1.92	0.20	-0.33	-3.44	-1.07	1.92
400°	-0.19	2.19	0.32	-0.04	-3.38	-0.72	1.79

Scaling predictions calculated using Scale Soft Pitzer 2017
 Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

Customer: **XTO ENERGY INC**
Region: **Eunice, NM**
Location: **Arrowhead Grayburg Unit (AGU)**
System: **Production System**

Equipment: **AGU-CTB**
Sample Point: **Injection Pump Discharge**
Sample ID: **AL22018**
Acct Rep Email: **Michael.McNatt@ecolab.com**

Collection Date: **07/12/2018**
Receive Date: **07/19/2018**
Report Date: **07/20/2018**
Location Code: **312414**



Comments

Scaling predictions calculated using Scale Soft Pitzer 2017
Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

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Attachment E

Groundwater Depth Data

Seven Rivers Queen Release
1RP-5218

Water Well ID	Lat	Long	Distance from Release (miles)	Drilled Date	DTW (ft)
CP 00727	32.423515	-103.286300	0.97	5/19/88	212
CP 00727 CL W475753	32.423515	-103.286300	0.97	4/26/88	--
L11013	32.402635	-103.257330	1.36	1/4/00	--
CP 01318 POD 2	32.400000	-103.259722	1.44	2/24/15	180
CP00070	32.390822	-103.271248	1.92	10/5/72	170
CP00070 CLW472929	32.390822	-103.271248	1.92	10/5/72	170
CP00764 POD 1	32.390835	-103.266975	1.93	7/1/91	4000

* Query date - 11/28/2018

Attachment F
Site Plan and Soil Sampling Diagram

XTO Energy, Inc - Seven Rivers Queen (1RP-5218)

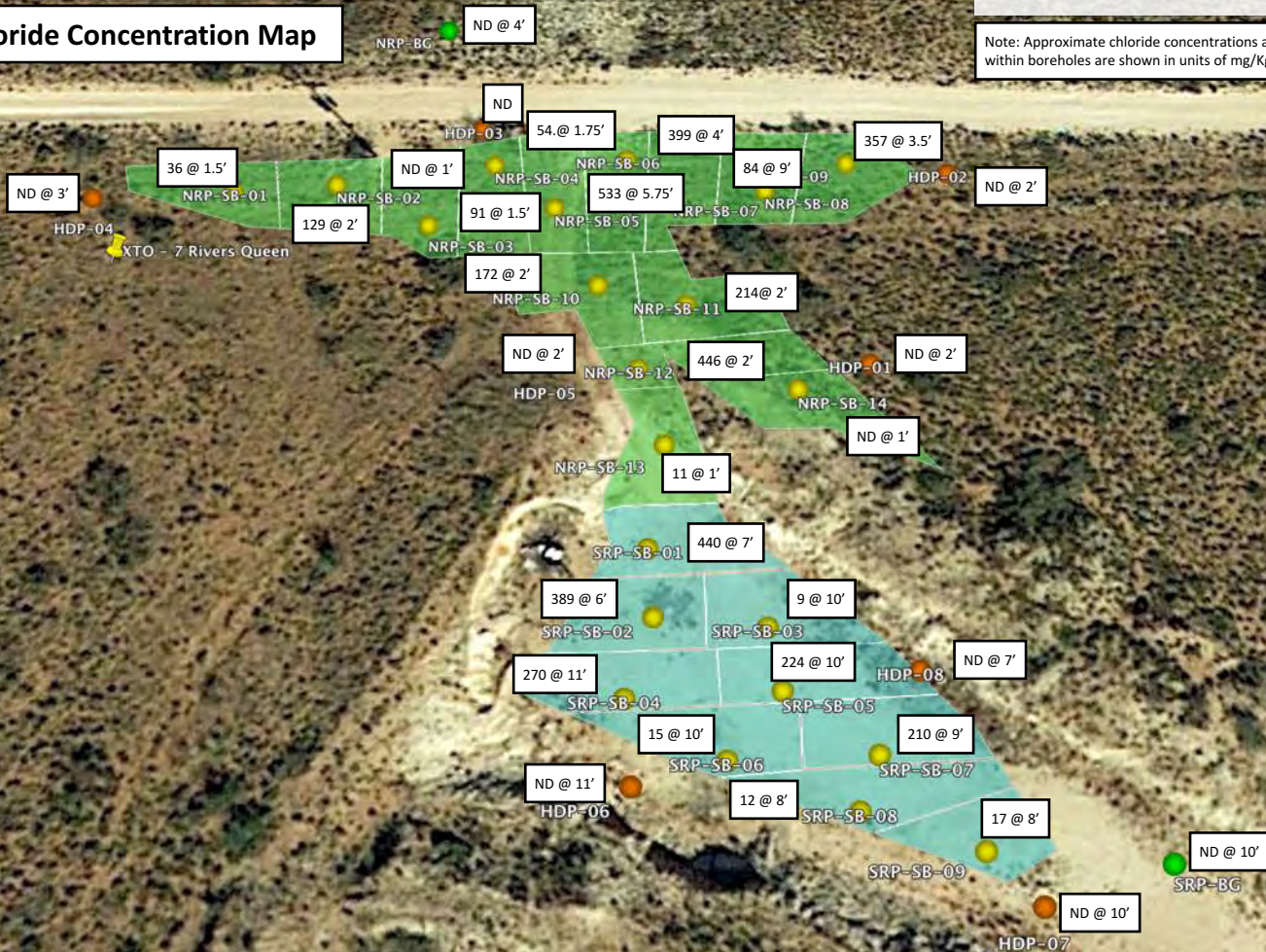
Approximate Location: 32.41861, -103.27083 (Affected Area: approx. 18,841 square feet)
Release of approximately 865 BBL of produced water with 660 BBL recovered. Net loss of approximately 205 BBL produced water on September 13, 2018. Produced water source had chloride concentrations less than 10,000 ppm.
North Release Path subject to NMOCD jurisdiction. South Release Path subject to SLO.
Aerial Imagery dated: August 10, 2016

Legend

- Background Soil Boring
- Horizontal Delineation Point (HDP) Boring
- ▭ North Release Path (NRP) Affected Area
- Soil Boring
- ▭ South Release Path (SRP) Affected Area

Depth & Chloride Concentration Map

Note: Approximate chloride concentrations associated with deepest sample location within boreholes are shown in units of mg/Kg of soil.



Attachment G
Analytical Reports and Chain-of-Custody Forms

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-168662-1

Client Project/Site: XTO-Seven Rivers Queen

For:

Sport Environmental Services LLC

502 N Big Spring St

Midland, Texas 79701

Attn: Debi Sport Moore



Authorized for release by:

2/25/2019 4:30:51 PM

Jennifer Gambill, Project Manager I

(615)301-5044

jennifer.gambill@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Chronicle	127
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Certification Summary	149
Chain of Custody	150



Sample Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-168662-1	NRP-BG-001 @ 0-1' bgs	Solid	02/14/19 09:27	02/16/19 10:25
490-168662-2	NRP-BG-001 @ 2' bgs	Solid	02/14/19 09:27	02/16/19 10:25
490-168662-3	NRP-BG-001 @ 4' bgs	Solid	02/14/19 09:30	02/16/19 10:25
490-168662-4	SRP-BG-001 @ 0-1' bgs	Solid	02/14/19 09:25	02/16/19 10:25
490-168662-5	SRP-BG-001 @ 2' bgs	Solid	02/14/19 09:26	02/16/19 10:25
490-168662-6	SRP-BG-001 @ 4' bgs	Solid	02/14/19 09:29	02/16/19 10:25
490-168662-7	SRP-BG-001 @ 8' bgs	Solid	02/14/19 09:35	02/16/19 10:25
490-168662-8	SRP-BG-001 @ 10' bgs	Solid	02/14/19 09:44	02/16/19 10:25
490-168662-9	NRP-SB-01-001 @ 0-1' bgs	Solid	02/14/19 10:18	02/16/19 10:25
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Solid	02/14/19 10:21	02/16/19 10:25
490-168662-11	NRP-SB-02-001 @ 0-1' bgs	Solid	02/14/19 10:30	02/16/19 10:25
490-168662-12	NRP-SB-02-001 @ 2' bgs	Solid	02/14/19 10:36	02/16/19 10:25
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Solid	02/14/19 10:44	02/16/19 10:25
490-168662-14	NRP-SB-04-001 @ 0-1' bgs	Solid	02/14/19 10:55	02/16/19 10:25
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Solid	02/14/19 11:02	02/16/19 10:25
490-168662-16	NRP-SB-05-001 @ 0-1' bgs	Solid	02/14/19 11:10	02/16/19 10:25
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Solid	02/14/19 11:15	02/16/19 10:25
490-168662-18	NRP-SB-06-001 @ 0-1' bgs	Solid	02/14/19 11:25	02/16/19 10:25
490-168662-19	NRP-SB-06-001 @ 2' bgs	Solid	02/14/19 11:29	02/16/19 10:25
490-168662-20	NRP-SB-06-001 @ 4' bgs	Solid	02/14/19 11:36	02/16/19 10:25
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Solid	02/14/19 12:08	02/16/19 10:25
490-168662-22	NRP-SB-07-001 @ 0-1' bgs	Solid	02/14/19 12:21	02/16/19 10:25
490-168662-23	NRP-SB-07-001 @ 2' bgs	Solid	02/14/19 12:24	02/16/19 10:25
490-168662-24	NRP-SB-07-001 @ 4' bgs	Solid	02/14/19 12:30	02/16/19 10:25
490-168662-25	NRP-SB-08-001 @ 0-1' bgs	Solid	02/14/19 12:45	02/16/19 10:25
490-168662-26	NRP-SB-08-001 @ 2' bgs	Solid	02/14/19 12:51	02/16/19 10:25
490-168662-27	NRP-SB-08-001 @ 4' bgs	Solid	02/14/19 12:58	02/16/19 10:25
490-168662-28	NRP-SB-08-001 @ 8' bgs	Solid	02/14/19 13:22	02/16/19 10:25
490-168662-29	NRP-SB-08-001 @ 9' bgs	Solid	02/14/19 13:33	02/16/19 10:25
490-168662-30	NRP-SB-09-001 @ 0-1' bgs	Solid	02/14/19 13:46	02/16/19 10:25
490-168662-31	NRP-SB-09-001 @ 2' bgs	Solid	02/14/19 13:49	02/16/19 10:25
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Solid	02/14/19 13:55	02/16/19 10:25
490-168662-33	NRP-SB-10-001 @ 0-1' bgs	Solid	02/14/19 13:18	02/16/19 10:25
490-168662-34	NRP-SB-10-001 @ 2' bgs	Solid	02/14/19 13:18	02/16/19 10:25
490-168662-35	NRP-SB-10-001 @ 3' bgs	Solid	02/14/19 13:18	02/16/19 10:25
490-168662-36	NRP-SB-11-001 @ 0-1' bgs	Solid	02/14/19 14:33	02/16/19 10:25
490-168662-37	NRP-SB-11-001 @ 2' bgs	Solid	02/14/19 14:33	02/16/19 10:25
490-168662-38	NRP-SB-12-001 @ 0-1' bgs	Solid	02/14/19 14:48	02/16/19 10:25
490-168662-39	NRP-SB-12-001 @ 2' bgs	Solid	02/14/19 14:48	02/16/19 10:25
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Solid	02/14/19 15:16	02/16/19 10:25
490-168662-42	SRP-SB-01-001 @ 0-1' bgs	Solid	02/14/19 14:46	02/16/19 10:25
490-168662-43	SRP-SB-01-001 @ 2' bgs	Solid	02/14/19 14:47	02/16/19 10:25
490-168662-44	SRP-SB-01-001 @ 4' bgs	Solid	02/14/19 14:51	02/16/19 10:25
490-168662-45	SRP-SB-01-001 @ 7' bgs	Solid	02/14/19 15:02	02/16/19 10:25
490-168662-46	SRP-SB-02-001 @ 0-1' bgs	Solid	02/14/19 14:29	02/16/19 10:25
490-168662-47	SRP-SB-02-001 @ 2' bgs	Solid	02/14/19 14:30	02/16/19 10:25
490-168662-48	SRP-SB-02-001 @ 4' bgs	Solid	02/14/19 14:33	02/16/19 10:25
490-168662-49	SRP-SB-02-001 @ 6' bgs	Solid	02/14/19 14:41	02/16/19 10:25
490-168662-50	SRP-SB-03-001 @ 0-1' bgs	Solid	02/14/19 15:07	02/16/19 10:25
490-168662-51	SRP-SB-03-001 @ 2' bgs	Solid	02/14/19 15:09	02/16/19 10:25
490-168662-52	SRP-SB-03-001 @ 4' bgs	Solid	02/14/19 15:10	02/16/19 10:25
490-168662-53	SRP-SB-03-001 @ 8' bgs	Solid	02/14/19 15:16	02/16/19 10:25
490-168662-54	SRP-SB-03-001 @ 10' bgs	Solid	02/14/19 15:19	02/16/19 10:25

TestAmerica Nashville

Sample Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-168662-55	SRP-SB-04-001 @ 0-1' bgs	Solid	02/14/19 13:44	02/16/19 10:25
490-168662-56	SRP-SB-04-001 @ 2' bgs	Solid	02/14/19 13:45	02/16/19 10:25
490-168662-57	SRP-SB-04-001 @ 4' bgs	Solid	02/14/19 13:46	02/16/19 10:25
490-168662-58	SRP-SB-04-001 @ 8' bgs	Solid	02/14/19 13:55	02/16/19 10:25
490-168662-59	SRP-SB-04-001 @ 11' bgs	Solid	02/14/19 14:00	02/16/19 10:25
490-168662-60	SRP-SB-05-001 @ 0-1' bgs	Solid	02/14/19 12:44	02/16/19 10:25
490-168662-61	SRP-SB-05-001 @ 2' bgs	Solid	02/14/19 12:46	02/16/19 10:25
490-168662-62	SRP-SB-05-001 @ 4' bgs	Solid	02/14/19 12:49	02/16/19 10:25
490-168662-63	SRP-SB-05-001 @ 8' bgs	Solid	02/14/19 13:14	02/16/19 10:25
490-168662-64	SRP-SB-05-001 @ 10' bgs	Solid	02/14/19 13:22	02/16/19 10:25
490-168662-65	SRP-SB-06-001 @ 0-1' bgs	Solid	02/14/19 12:19	02/16/19 10:25
490-168662-66	SRP-SB-06-001 @ 2' bgs	Solid	02/14/19 12:20	02/16/19 10:25
490-168662-67	SRP-SB-06-001 @ 4' bgs	Solid	02/14/19 12:22	02/16/19 10:25
490-168662-68	SRP-SB-06-001 @ 8' bgs	Solid	02/14/19 12:31	02/16/19 10:25
490-168662-69	SRP-SB-06-001 @ 10' bgs	Solid	02/14/19 12:34	02/16/19 10:25
490-168662-70	SRP-SB-07-001 @ 0-1' bgs	Solid	02/14/19 11:53	02/16/19 10:25
490-168662-71	SRP-SB-07-001 @ 2' bgs	Solid	02/14/19 11:55	02/16/19 10:25
490-168662-72	SRP-SB-07-001 @ 4' bgs	Solid	02/14/19 11:57	02/16/19 10:25
490-168662-73	SRP-SB-07-001 @ 8' bgs	Solid	02/14/19 12:11	02/16/19 10:25
490-168662-74	SRP-SB-07-001 @ 9' bgs	Solid	02/14/19 12:13	02/16/19 10:25
490-168662-75	SRP-SB-08-001 @ 0-1' bgs	Solid	02/14/19 11:32	02/16/19 10:25
490-168662-76	SRP-SB-08-001 @ 2' bgs	Solid	02/14/19 11:33	02/16/19 10:25
490-168662-77	SRP-SB-08-001 @ 4' bgs	Solid	02/14/19 11:36	02/16/19 10:25
490-168662-78	SRP-SB-08-001 @ 8' bgs	Solid	02/14/19 11:50	02/16/19 10:25
490-168662-79	SRP-SB-09-001 @ 0-1' bgs	Solid	02/14/19 11:09	02/16/19 10:25
490-168662-80	SRP-SB-09-001 @ 2' bgs	Solid	02/14/19 11:11	02/16/19 10:25
490-168662-81	SRP-SB-09-001 @ 4' bgs	Solid	02/14/19 11:15	02/16/19 10:25
490-168662-82	SRP-SB-09-001 @ 8' bgs	Solid	02/14/19 11:28	02/16/19 10:25
490-168662-83	HDP-SB-06-001 @ 0-1' bgs	Solid	02/14/19 14:09	02/16/19 10:25
490-168662-84	HDP-SB-06-001 @ 2' bgs	Solid	02/14/19 14:11	02/16/19 10:25
490-168662-85	HDP-SB-06-001 @ 4' bgs	Solid	02/14/19 14:12	02/16/19 10:25
490-168662-86	HDP-SB-06-001 @ 8' bgs	Solid	02/14/19 14:20	02/16/19 10:25
490-168662-87	HDP-SB-06-001 @ 11' bgs	Solid	02/14/19 14:23	02/16/19 10:25
490-168662-88	HDP-SB-07-001 @ 0-1' bgs	Solid	02/14/19 09:56	02/16/19 10:25
490-168662-89	HDP-SB-07-001 @ 2' bgs	Solid	02/14/19 10:00	02/16/19 10:25
490-168662-90	HDP-SB-07-001 @ 4' bgs	Solid	02/14/19 10:01	02/16/19 10:25
490-168662-91	HDP-SB-07-001 @ 8' bgs	Solid	02/14/19 10:08	02/16/19 10:25
490-168662-92	HDP-SB-07-001 @ 10' bgs	Solid	02/14/19 10:12	02/16/19 10:25
490-168662-93	HDP-SB-08-001 @ 0-1' bgs	Solid	02/14/19 15:23	02/16/19 10:25
490-168662-94	HDP-SB-08-001 @ 2' bgs	Solid	02/14/19 15:25	02/16/19 10:25
490-168662-95	HDP-SB-08-001 @ 4' bgs	Solid	02/14/19 15:27	02/16/19 10:25
490-168662-96	HDP-SB-08-001 @ 7' bgs	Solid	02/14/19 15:33	02/16/19 10:25

TestAmerica Nashville

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Job ID: 490-168662-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-168662-1

Comments

No additional comments.

Receipt

The samples were received on 2/16/2019 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.6° C, 2.2° C and 2.4° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: NRP-SB-14-001 @ 0-1' bgs (490-168662-41).

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following samples were outside control limits: SRP-SB-06-001 @ 10' bgs (490-168662-69), SRP-SB-07-001 @ 9' bgs (490-168662-74) and SRP-SB-08-001 @ 8' bgs (490-168662-78). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method(s) 300.0: The concentration of Chloride in the Matrix Spike/Matrix Spike Duplicate (MS/MSD) exceeded the calibration curve range. (490-168662-A-21-B MS) and (490-168662-A-21-C MSD)

Method(s) 300.0: The following samples were diluted due to the nature of the sample matrix: NRP-SB-06-001 @ 4' bgs (490-168662-20), NRP-SB-06-001 @ 5.75' bgs (490-168662-21), NRP-SB-07-001 @ 4' bgs (490-168662-24) and NRP-SB-12-001 @ 2' bgs (490-168662-39). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following sample was diluted due to the nature of the sample matrix: SRP-SB-06-001 @ 2' bgs (490-168662-66). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted due to the nature of the sample matrix: SRP-SB-01-001 @ 4' bgs (490-168662-44) and SRP-SB-01-001 @ 7' bgs (490-168662-45). 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.

GC Semi VOA

Method(s) 8015B: The continuing calibration verification (CCV) associated with batch 490-576489 recovered above the upper control limit for C10-C28 and C18-C40. The following samples associated with this CCV were non-detects for the associated affected analytes; therefore, the data have been reported: SRP-SB-01-001 @ 7' bgs (490-168662-45), SRP-SB-03-001 @ 10' bgs (490-168662-54) and SRP-SB-05-001 @ 10' bgs (490-168662-64).

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: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
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
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.
α	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-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-1

Date Collected: 02/14/19 09:27

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.94	6.96	mg/Kg			02/19/19 09:47	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-BG-001 @ 2' bgs

Lab Sample ID: 490-168662-2

Date Collected: 02/14/19 09:27

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.85	6.90	mg/Kg			02/19/19 10:31	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-BG-001 @ 4' bgs

Lab Sample ID: 490-168662-3

Date Collected: 02/14/19 09:30

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199	0.000666	mg/Kg		02/19/19 12:43	02/20/19 19:20	1
Ethylbenzene	ND		0.00199	0.000666	mg/Kg		02/19/19 12:43	02/20/19 19:20	1
Toluene	ND		0.00199	0.000736	mg/Kg		02/19/19 12:43	02/20/19 19:20	1
Xylenes, Total	ND		0.00596	0.00122	mg/Kg		02/19/19 12:43	02/20/19 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130				02/19/19 12:43	02/20/19 19:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130				02/19/19 12:43	02/20/19 19:20	1
Dibromofluoromethane (Surr)	122		70 - 130				02/19/19 12:43	02/20/19 19:20	1
Toluene-d8 (Surr)	91		70 - 130				02/19/19 12:43	02/20/19 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.55	2.28	mg/Kg		02/19/19 12:40	02/23/19 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150				02/19/19 12:40	02/23/19 00:27	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	2.49	mg/Kg		02/19/19 14:18	02/22/19 04:35	1
MRO (C28-C35)	ND		4.97	2.49	mg/Kg		02/19/19 14:18	02/22/19 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150				02/19/19 14:18	02/22/19 04:35	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			02/19/19 10:46	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-4

Date Collected: 02/14/19 09:25

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 11:01	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-BG-001@ 2' bgs

Lab Sample ID: 490-168662-5

Date Collected: 02/14/19 09:26

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 11:16	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-BG-001@ 4' bgs

Lab Sample ID: 490-168662-6

Date Collected: 02/14/19 09:29

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.91	6.94	mg/Kg			02/19/19 11:30	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-BG-001@ 8' bgs

Lab Sample ID: 490-168662-7

Date Collected: 02/14/19 09:35

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 11:45	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-BG-001@ 10' bgs

Lab Sample ID: 490-168662-8

Date Collected: 02/14/19 09:44

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00170	0.000569	mg/Kg		02/19/19 12:43	02/20/19 19:48	1
Ethylbenzene	ND		0.00170	0.000569	mg/Kg		02/19/19 12:43	02/20/19 19:48	1
Toluene	ND		0.00170	0.000628	mg/Kg		02/19/19 12:43	02/20/19 19:48	1
Xylenes, Total	ND		0.00509	0.00104	mg/Kg		02/19/19 12:43	02/20/19 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				02/19/19 12:43	02/20/19 19:48	1
4-Bromofluorobenzene (Surr)	98		70 - 130				02/19/19 12:43	02/20/19 19:48	1
Dibromofluoromethane (Surr)	123		70 - 130				02/19/19 12:43	02/20/19 19:48	1
Toluene-d8 (Surr)	92		70 - 130				02/19/19 12:43	02/20/19 19:48	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		02/19/19 12:40	02/23/19 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/19/19 12:40	02/23/19 01:01	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		02/19/19 14:18	02/22/19 05:26	1
MRO (C28-C35)	ND		4.91	2.46	mg/Kg		02/19/19 14:18	02/22/19 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		50 - 150				02/19/19 14:18	02/22/19 05:26	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			02/19/19 12:00	1

TestAmerica Nashville

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-01-001 @ 0-1' bgs

Lab Sample ID: 490-168662-9

Date Collected: 02/14/19 10:18

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.10	mg/Kg			02/19/19 12:15	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-01-001 @ 1.5' bgs

Lab Sample ID: 490-168662-10

Date Collected: 02/14/19 10:21

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 12:43	02/20/19 20:18	1
Ethylbenzene	ND		0.00198	0.000662	mg/Kg		02/19/19 12:43	02/20/19 20:18	1
Toluene	ND		0.00198	0.000731	mg/Kg		02/19/19 12:43	02/20/19 20:18	1
Xylenes, Total	ND		0.00593	0.00122	mg/Kg		02/19/19 12:43	02/20/19 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130	02/19/19 12:43	02/20/19 20:18	1
4-Bromofluorobenzene (Surr)	104		70 - 130	02/19/19 12:43	02/20/19 20:18	1
Dibromofluoromethane (Surr)	125		70 - 130	02/19/19 12:43	02/20/19 20:18	1
Toluene-d8 (Surr)	94		70 - 130	02/19/19 12:43	02/20/19 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.79	2.39	mg/Kg		02/19/19 12:40	02/23/19 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150	02/19/19 12:40	02/23/19 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	67.2		4.88	2.44	mg/Kg		02/19/19 14:18	02/22/19 05:42	1
MRO (C28-C35)	38.0		4.88	2.44	mg/Kg		02/19/19 14:18	02/22/19 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	56		50 - 150	02/19/19 14:18	02/22/19 05:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		9.96	6.97	mg/Kg			02/19/19 12:30	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-02-001 @ 0-1' bgs

Lab Sample ID: 490-168662-11

Date Collected: 02/14/19 10:30

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 13:14	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-02-001 @ 2' bgs

Lab Sample ID: 490-168662-12

Date Collected: 02/14/19 10:36

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00196	0.000656	mg/Kg		02/19/19 12:43	02/20/19 20:47	1
Ethylbenzene	ND		0.00196	0.000656	mg/Kg		02/19/19 12:43	02/20/19 20:47	1
Toluene	ND		0.00196	0.000724	mg/Kg		02/19/19 12:43	02/20/19 20:47	1
Xylenes, Total	ND		0.00587	0.00120	mg/Kg		02/19/19 12:43	02/20/19 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				02/19/19 12:43	02/20/19 20:47	1
4-Bromofluorobenzene (Surr)	99		70 - 130				02/19/19 12:43	02/20/19 20:47	1
Dibromofluoromethane (Surr)	120		70 - 130				02/19/19 12:43	02/20/19 20:47	1
Toluene-d8 (Surr)	94		70 - 130				02/19/19 12:43	02/20/19 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.63	2.31	mg/Kg		02/19/19 12:40	02/23/19 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/19/19 12:40	02/23/19 02:08	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	2.49	mg/Kg		02/19/19 14:18	02/22/19 05:59	1
MRO (C28-C35)	3.93	J	4.99	2.49	mg/Kg		02/19/19 14:18	02/22/19 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	67		50 - 150				02/19/19 14:18	02/22/19 05:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.92	6.94	mg/Kg			02/19/19 13:29	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-03-001 @ 0-1' bgs

Lab Sample ID: 490-168662-13

Date Collected: 02/14/19 10:44

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00185	0.000619	mg/Kg		02/19/19 12:43	02/20/19 21:16	1
Ethylbenzene	ND		0.00185	0.000619	mg/Kg		02/19/19 12:43	02/20/19 21:16	1
Toluene	ND		0.00185	0.000684	mg/Kg		02/19/19 12:43	02/20/19 21:16	1
Xylenes, Total	ND		0.00555	0.00114	mg/Kg		02/19/19 12:43	02/20/19 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				02/19/19 12:43	02/20/19 21:16	1
4-Bromofluorobenzene (Surr)	106		70 - 130				02/19/19 12:43	02/20/19 21:16	1
Dibromofluoromethane (Surr)	123		70 - 130				02/19/19 12:43	02/20/19 21:16	1
Toluene-d8 (Surr)	97		70 - 130				02/19/19 12:43	02/20/19 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.74	2.37	mg/Kg		02/19/19 12:40	02/23/19 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150				02/19/19 12:40	02/23/19 02:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.52	J	4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:16	1
MRO (C28-C35)	8.10		4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	87		50 - 150				02/19/19 14:18	02/22/19 06:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.93	6.95	mg/Kg			02/19/19 13:44	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-04-001 @ 0-1' bgs

Lab Sample ID: 490-168662-14

Date Collected: 02/14/19 10:55

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.92	6.95	mg/Kg			02/19/19 13:59	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-04-001 @ 1.5' bgs

Lab Sample ID: 490-168662-15

Date Collected: 02/14/19 11:02

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00196	0.000656	mg/Kg		02/19/19 12:43	02/20/19 21:46	1
Ethylbenzene	ND		0.00196	0.000656	mg/Kg		02/19/19 12:43	02/20/19 21:46	1
Toluene	ND		0.00196	0.000724	mg/Kg		02/19/19 12:43	02/20/19 21:46	1
Xylenes, Total	ND		0.00587	0.00120	mg/Kg		02/19/19 12:43	02/20/19 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				02/19/19 12:43	02/20/19 21:46	1
4-Bromofluorobenzene (Surr)	101		70 - 130				02/19/19 12:43	02/20/19 21:46	1
Dibromofluoromethane (Surr)	122		70 - 130				02/19/19 12:43	02/20/19 21:46	1
Toluene-d8 (Surr)	92		70 - 130				02/19/19 12:43	02/20/19 21:46	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		02/19/19 12:40	02/23/19 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/19/19 12:40	02/23/19 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.29		4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:32	1
MRO (C28-C35)	6.21		4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	83		50 - 150				02/19/19 14:18	02/22/19 06:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.1		10.0	7.00	mg/Kg			02/19/19 14:14	1

TestAmerica Nashville

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-05-001 @ 0-1' bgs

Lab Sample ID: 490-168662-16

Date Collected: 02/14/19 11:10

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.84	6.89	mg/Kg			02/19/19 14:28	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-05-001 @ 1.75' bgs

Lab Sample ID: 490-168662-17

Date Collected: 02/14/19 11:15

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 12:43	02/20/19 22:15	1
Ethylbenzene	ND		0.00190	0.000636	mg/Kg		02/19/19 12:43	02/20/19 22:15	1
Toluene	ND		0.00190	0.000702	mg/Kg		02/19/19 12:43	02/20/19 22:15	1
Xylenes, Total	ND		0.00569	0.00117	mg/Kg		02/19/19 12:43	02/20/19 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130				02/19/19 12:43	02/20/19 22:15	1
4-Bromofluorobenzene (Surr)	101		70 - 130				02/19/19 12:43	02/20/19 22:15	1
Dibromofluoromethane (Surr)	122		70 - 130				02/19/19 12:43	02/20/19 22:15	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 12:43	02/20/19 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.62	2.31	mg/Kg		02/19/19 12:40	02/23/19 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150				02/19/19 12:40	02/23/19 03:49	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		4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:49	1
MRO (C28-C35)	4.63	J	4.94	2.47	mg/Kg		02/19/19 14:18	02/22/19 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	80		50 - 150				02/19/19 14:18	02/22/19 06:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.3		9.98	6.99	mg/Kg			02/19/19 14:43	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-18

Date Collected: 02/14/19 11:25

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 14:58	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-19

Date Collected: 02/14/19 11:29

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		10.1	7.04	mg/Kg			02/19/19 15:13	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-20

Date Collected: 02/14/19 11:36

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	421		19.8	13.9	mg/Kg			02/20/19 09:12	2

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-06-001 @ 5.75' bgs

Lab Sample ID: 490-168662-21

Date Collected: 02/14/19 12:08

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00194	0.000650	mg/Kg		02/19/19 12:51	02/20/19 22:46	1
Ethylbenzene	ND		0.00194	0.000650	mg/Kg		02/19/19 12:51	02/20/19 22:46	1
Toluene	ND		0.00194	0.000718	mg/Kg		02/19/19 12:51	02/20/19 22:46	1
Xylenes, Total	ND		0.00583	0.00119	mg/Kg		02/19/19 12:51	02/20/19 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				02/19/19 12:51	02/20/19 22:46	1
4-Bromofluorobenzene (Surr)	99		70 - 130				02/19/19 12:51	02/20/19 22:46	1
Dibromofluoromethane (Surr)	123		70 - 130				02/19/19 12:51	02/20/19 22:46	1
Toluene-d8 (Surr)	91		70 - 130				02/19/19 12:51	02/20/19 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.64	2.32	mg/Kg		02/19/19 13:47	02/23/19 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150				02/19/19 13:47	02/23/19 04:23	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		4.89	2.44	mg/Kg		02/19/19 14:18	02/22/19 07:06	1
MRO (C28-C35)	2.53	J	4.89	2.44	mg/Kg		02/19/19 14:18	02/22/19 07:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150				02/19/19 14:18	02/22/19 07:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		20.0	14.0	mg/Kg			02/20/19 09:27	2

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-22

Date Collected: 02/14/19 12:21

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 18:10	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-23

Date Collected: 02/14/19 12:24

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.88	6.91	mg/Kg			02/19/19 18:25	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-24

Date Collected: 02/14/19 12:30

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00186	0.000622	mg/Kg		02/19/19 13:47	02/20/19 23:17	1
Ethylbenzene	ND		0.00186	0.000622	mg/Kg		02/19/19 13:47	02/20/19 23:17	1
Toluene	ND		0.00186	0.000686	mg/Kg		02/19/19 13:47	02/20/19 23:17	1
Xylenes, Total	ND		0.00557	0.00114	mg/Kg		02/19/19 13:47	02/20/19 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				02/19/19 13:47	02/20/19 23:17	1
4-Bromofluorobenzene (Surr)	100		70 - 130				02/19/19 13:47	02/20/19 23:17	1
Dibromofluoromethane (Surr)	123		70 - 130				02/19/19 13:47	02/20/19 23:17	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 13:47	02/20/19 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.61	2.31	mg/Kg		02/19/19 13:47	02/23/19 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150				02/19/19 13:47	02/23/19 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	2.47	mg/Kg		02/19/19 14:18	02/22/19 07:56	1
MRO (C28-C35)	4.20	J	4.93	2.47	mg/Kg		02/19/19 14:18	02/22/19 07:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150				02/19/19 14:18	02/22/19 07:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	399		20.1	14.0	mg/Kg			02/20/19 09:57	2

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-25

Date Collected: 02/14/19 12:45

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 18:54	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-26

Date Collected: 02/14/19 12:51

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		9.84	6.89	mg/Kg			02/19/19 19:09	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-27

Date Collected: 02/14/19 12:58

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		10.1	7.04	mg/Kg			02/19/19 19:24	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 8' bgs

Lab Sample ID: 490-168662-28

Date Collected: 02/14/19 13:22

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.3		10.1	7.10	mg/Kg			02/19/19 19:39	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 9' bgs

Lab Sample ID: 490-168662-29

Date Collected: 02/14/19 13:33

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 13:47	02/20/19 23:48	1
Ethylbenzene	ND		0.00196	0.000657	mg/Kg		02/19/19 13:47	02/20/19 23:48	1
Toluene	ND		0.00196	0.000725	mg/Kg		02/19/19 13:47	02/20/19 23:48	1
Xylenes, Total	ND		0.00588	0.00121	mg/Kg		02/19/19 13:47	02/20/19 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	02/19/19 13:47	02/20/19 23:48	1
4-Bromofluorobenzene (Surr)	97		70 - 130	02/19/19 13:47	02/20/19 23:48	1
Dibromofluoromethane (Surr)	128		70 - 130	02/19/19 13:47	02/20/19 23:48	1
Toluene-d8 (Surr)	92		70 - 130	02/19/19 13:47	02/20/19 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.27	2.14	mg/Kg		02/19/19 13:47	02/23/19 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150	02/19/19 13:47	02/23/19 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	2.47	mg/Kg		02/19/19 14:18	02/22/19 08:13	1
MRO (C28-C35)	ND		4.95	2.47	mg/Kg		02/19/19 14:18	02/22/19 08:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		50 - 150	02/19/19 14:18	02/22/19 08:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.0		9.87	6.91	mg/Kg			02/19/19 19:53	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-09-001 @ 0-1' bgs

Lab Sample ID: 490-168662-30

Date Collected: 02/14/19 13:46

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.86	6.90	mg/Kg			02/19/19 20:08	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-09-001 @ 2' bgs

Lab Sample ID: 490-168662-31

Date Collected: 02/14/19 13:49

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8		10.1	7.04	mg/Kg			02/19/19 20:53	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-09-001 @ 3.5' bgs

Lab Sample ID: 490-168662-32

Date Collected: 02/14/19 13:55

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00198	0.000665	mg/Kg		02/19/19 13:47	02/21/19 00:18	1
Ethylbenzene	ND		0.00198	0.000665	mg/Kg		02/19/19 13:47	02/21/19 00:18	1
Toluene	ND		0.00198	0.000734	mg/Kg		02/19/19 13:47	02/21/19 00:18	1
Xylenes, Total	ND		0.00595	0.00122	mg/Kg		02/19/19 13:47	02/21/19 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	02/19/19 13:47	02/21/19 00:18	1
4-Bromofluorobenzene (Surr)	101		70 - 130	02/19/19 13:47	02/21/19 00:18	1
Dibromofluoromethane (Surr)	123		70 - 130	02/19/19 13:47	02/21/19 00:18	1
Toluene-d8 (Surr)	92		70 - 130	02/19/19 13:47	02/21/19 00:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.84	2.42	mg/Kg		02/19/19 13:47	02/23/19 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150	02/19/19 13:47	02/23/19 06:03	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		4.88	2.44	mg/Kg		02/19/19 14:18	02/22/19 08:30	1
MRO (C28-C35)	4.05	J	4.88	2.44	mg/Kg		02/19/19 14:18	02/22/19 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	77		50 - 150	02/19/19 14:18	02/22/19 08:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		10.0	7.03	mg/Kg			02/19/19 21:07	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-10-001 @ 0-1' bgs

Lab Sample ID: 490-168662-33

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 21:22	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-10-001 @ 2' bgs

Lab Sample ID: 490-168662-34

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 21:37	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-10-001 @ 3' bgs

Lab Sample ID: 490-168662-35

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 13:47	02/21/19 00:48	1
Ethylbenzene	ND		0.00200	0.000669	mg/Kg		02/19/19 13:47	02/21/19 00:48	1
Toluene	ND		0.00200	0.000739	mg/Kg		02/19/19 13:47	02/21/19 00:48	1
Xylenes, Total	ND		0.00599	0.00123	mg/Kg		02/19/19 13:47	02/21/19 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				02/19/19 13:47	02/21/19 00:48	1
4-Bromofluorobenzene (Surr)	100		70 - 130				02/19/19 13:47	02/21/19 00:48	1
Dibromofluoromethane (Surr)	126		70 - 130				02/19/19 13:47	02/21/19 00:48	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 13:47	02/21/19 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.31	2.16	mg/Kg		02/19/19 13:47	02/23/19 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150				02/19/19 13:47	02/23/19 06:37	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		4.97	2.49	mg/Kg		02/19/19 14:18	02/22/19 08:47	1
MRO (C28-C35)	5.82		4.97	2.49	mg/Kg		02/19/19 14:18	02/22/19 08:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	70		50 - 150				02/19/19 14:18	02/22/19 08:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		9.96	6.97	mg/Kg			02/19/19 21:52	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-11-001 @ 0-1' bgs

Lab Sample ID: 490-168662-36

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 22:07	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-11-001 @ 2' bgs

Lab Sample ID: 490-168662-37

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00197	0.000659	mg/Kg		02/19/19 13:47	02/21/19 01:18	1
Ethylbenzene	ND		0.00197	0.000659	mg/Kg		02/19/19 13:47	02/21/19 01:18	1
Toluene	ND		0.00197	0.000728	mg/Kg		02/19/19 13:47	02/21/19 01:18	1
Xylenes, Total	ND		0.00591	0.00121	mg/Kg		02/19/19 13:47	02/21/19 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130				02/19/19 13:47	02/21/19 01:18	1
4-Bromofluorobenzene (Surr)	97		70 - 130				02/19/19 13:47	02/21/19 01:18	1
Dibromofluoromethane (Surr)	122		70 - 130				02/19/19 13:47	02/21/19 01:18	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 13:47	02/21/19 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.74	2.37	mg/Kg		02/19/19 13:47	02/23/19 07:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150				02/19/19 13:47	02/23/19 07:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	2.48	mg/Kg		02/19/19 16:17	02/21/19 13:23	1
MRO (C28-C35)	ND		4.96	2.48	mg/Kg		02/19/19 16:17	02/21/19 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	85		50 - 150				02/19/19 16:17	02/21/19 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		9.88	6.92	mg/Kg			02/19/19 22:22	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-12-001 @ 0-1' bgs

Lab Sample ID: 490-168662-38

Date Collected: 02/14/19 14:48

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/19/19 22:37	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-12-001 @ 2' bgs

Lab Sample ID: 490-168662-39

Date Collected: 02/14/19 14:48

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 13:47	02/21/19 01:47	1
Ethylbenzene	ND		0.00196	0.000658	mg/Kg		02/19/19 13:47	02/21/19 01:47	1
Toluene	ND		0.00196	0.000727	mg/Kg		02/19/19 13:47	02/21/19 01:47	1
Xylenes, Total	ND		0.00589	0.00121	mg/Kg		02/19/19 13:47	02/21/19 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				02/19/19 13:47	02/21/19 01:47	1
4-Bromofluorobenzene (Surr)	97		70 - 130				02/19/19 13:47	02/21/19 01:47	1
Dibromofluoromethane (Surr)	122		70 - 130				02/19/19 13:47	02/21/19 01:47	1
Toluene-d8 (Surr)	91		70 - 130				02/19/19 13:47	02/21/19 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.75	2.38	mg/Kg		02/19/19 13:47	02/23/19 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150				02/19/19 13:47	02/23/19 07:44	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		4.97	2.49	mg/Kg		02/19/19 16:17	02/21/19 13:40	1
MRO (C28-C35)	ND		4.97	2.49	mg/Kg		02/19/19 16:17	02/21/19 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150				02/19/19 16:17	02/21/19 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	446		20.2	14.2	mg/Kg			02/20/19 10:12	2

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-13-001 @ 0-1' bgs

Lab Sample ID: 490-168662-40

Date Collected: 02/14/19 15:16

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 13:47	02/21/19 02:16	1
Ethylbenzene	ND		0.00186	0.000623	mg/Kg		02/19/19 13:47	02/21/19 02:16	1
Toluene	ND		0.00186	0.000688	mg/Kg		02/19/19 13:47	02/21/19 02:16	1
Xylenes, Total	ND		0.00558	0.00114	mg/Kg		02/19/19 13:47	02/21/19 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	02/19/19 13:47	02/21/19 02:16	1
4-Bromofluorobenzene (Surr)	96		70 - 130	02/19/19 13:47	02/21/19 02:16	1
Dibromofluoromethane (Surr)	123		70 - 130	02/19/19 13:47	02/21/19 02:16	1
Toluene-d8 (Surr)	95		70 - 130	02/19/19 13:47	02/21/19 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.53	2.26	mg/Kg		02/19/19 13:47	02/23/19 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150	02/19/19 13:47	02/23/19 08:18	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		5.00	2.50	mg/Kg		02/19/19 16:17	02/21/19 14:32	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		02/19/19 16:17	02/21/19 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	70		50 - 150	02/19/19 16:17	02/21/19 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		9.87	6.91	mg/Kg			02/19/19 23:06	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-01-001 @ 0-1' bgs

Lab Sample ID: 490-168662-42

Date Collected: 02/14/19 14:46

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.91	6.94	mg/Kg			02/20/19 12:10	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-01-001 @ 2' bgs

Lab Sample ID: 490-168662-43

Date Collected: 02/14/19 14:47

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10.0	7.03	mg/Kg			02/20/19 12:55	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-01-001 @ 4' bgs

Lab Sample ID: 490-168662-44

Date Collected: 02/14/19 14:51

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404		49.5	34.7	mg/Kg			02/21/19 13:59	5

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-01-001 @ 7' bgs

Lab Sample ID: 490-168662-45

Date Collected: 02/14/19 15:02

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199	0.000666	mg/Kg		02/19/19 12:43	02/21/19 02:44	1
Ethylbenzene	ND		0.00199	0.000666	mg/Kg		02/19/19 12:43	02/21/19 02:44	1
Toluene	ND		0.00199	0.000736	mg/Kg		02/19/19 12:43	02/21/19 02:44	1
Xylenes, Total	ND		0.00596	0.00122	mg/Kg		02/19/19 12:43	02/21/19 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				02/19/19 12:43	02/21/19 02:44	1
4-Bromofluorobenzene (Surr)	99		70 - 130				02/19/19 12:43	02/21/19 02:44	1
Dibromofluoromethane (Surr)	124		70 - 130				02/19/19 12:43	02/21/19 02:44	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 12:43	02/21/19 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.96	2.48	mg/Kg		02/19/19 12:40	02/23/19 08:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/19/19 12:40	02/23/19 08:51	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		02/19/19 14:18	02/21/19 05:08	1
MRO (C28-C35)	ND		4.91	2.46	mg/Kg		02/19/19 14:18	02/21/19 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	109		50 - 150				02/19/19 14:18	02/21/19 05:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		49.5	34.6	mg/Kg			02/21/19 14:14	5

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-02-001 @ 0-1' bgs

Lab Sample ID: 490-168662-46

Date Collected: 02/14/19 14:29

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.93	6.95	mg/Kg			02/20/19 13:39	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-02-001 @ 2' bgs

Lab Sample ID: 490-168662-47

Date Collected: 02/14/19 14:30

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.92	6.95	mg/Kg			02/20/19 13:54	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-02-001 @ 4' bgs

Lab Sample ID: 490-168662-48

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		10.1	7.04	mg/Kg			02/20/19 14:09	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-02-001 @ 6' bgs

Lab Sample ID: 490-168662-49

Date Collected: 02/14/19 14:41

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00186	0.000622	mg/Kg		02/19/19 12:43	02/21/19 15:08	1
Ethylbenzene	ND		0.00186	0.000622	mg/Kg		02/19/19 12:43	02/21/19 15:08	1
Toluene	ND		0.00186	0.000686	mg/Kg		02/19/19 12:43	02/21/19 15:08	1
Xylenes, Total	ND		0.00557	0.00114	mg/Kg		02/19/19 12:43	02/21/19 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				02/19/19 12:43	02/21/19 15:08	1
4-Bromofluorobenzene (Surr)	98		70 - 130				02/19/19 12:43	02/21/19 15:08	1
Dibromofluoromethane (Surr)	118		70 - 130				02/19/19 12:43	02/21/19 15:08	1
Toluene-d8 (Surr)	94		70 - 130				02/19/19 12:43	02/21/19 15:08	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		02/19/19 12:40	02/23/19 09:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150				02/19/19 12:40	02/23/19 09:25	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		02/19/19 14:18	02/22/19 09:04	1
MRO (C28-C35)	ND		4.92	2.46	mg/Kg		02/19/19 14:18	02/22/19 09:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	82		50 - 150				02/19/19 14:18	02/22/19 09:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		10.0	7.01	mg/Kg			02/20/19 14:24	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 0-1' bgs

Lab Sample ID: 490-168662-50

Date Collected: 02/14/19 15:07

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.03	mg/Kg			02/20/19 14:39	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 2' bgs

Lab Sample ID: 490-168662-51

Date Collected: 02/14/19 15:09

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.91	6.94	mg/Kg			02/20/19 14:54	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 4' bgs

Lab Sample ID: 490-168662-52

Date Collected: 02/14/19 15:10

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 15:38	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 8' bgs

Lab Sample ID: 490-168662-53

Date Collected: 02/14/19 15:16

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		10.0	7.03	mg/Kg			02/20/19 15:53	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 10' bgs

Lab Sample ID: 490-168662-54

Date Collected: 02/14/19 15:19

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000610	mg/Kg		02/19/19 12:43	02/21/19 15:38	1
Ethylbenzene	ND		0.00182	0.000610	mg/Kg		02/19/19 12:43	02/21/19 15:38	1
Toluene	ND		0.00182	0.000674	mg/Kg		02/19/19 12:43	02/21/19 15:38	1
Xylenes, Total	ND		0.00546	0.00112	mg/Kg		02/19/19 12:43	02/21/19 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	02/19/19 12:43	02/21/19 15:38	1
4-Bromofluorobenzene (Surr)	94		70 - 130	02/19/19 12:43	02/21/19 15:38	1
Dibromofluoromethane (Surr)	121		70 - 130	02/19/19 12:43	02/21/19 15:38	1
Toluene-d8 (Surr)	89		70 - 130	02/19/19 12:43	02/21/19 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.88	2.44	mg/Kg		02/19/19 12:40	02/23/19 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150	02/19/19 12:40	02/23/19 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	2.47	mg/Kg		02/19/19 14:18	02/21/19 05:42	1
MRO (C28-C35)	ND		4.95	2.47	mg/Kg		02/19/19 14:18	02/21/19 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	108		50 - 150	02/19/19 14:18	02/21/19 05:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.50	J	10.1	7.04	mg/Kg			02/20/19 16:07	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 0-1' bgs

Lab Sample ID: 490-168662-55

Date Collected: 02/14/19 13:44

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.95	6.96	mg/Kg			02/20/19 16:22	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 2' bgs

Lab Sample ID: 490-168662-56

Date Collected: 02/14/19 13:45

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.96	6.97	mg/Kg			02/20/19 16:37	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 4' bgs

Lab Sample ID: 490-168662-57

Date Collected: 02/14/19 13:46

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 16:52	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 8' bgs

Lab Sample ID: 490-168662-58

Date Collected: 02/14/19 13:55

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		10.0	7.01	mg/Kg			02/20/19 17:06	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 11' bgs

Lab Sample ID: 490-168662-59

Date Collected: 02/14/19 14:00

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00195	0.000652	mg/Kg		02/19/19 12:43	02/21/19 16:08	1
Ethylbenzene	ND		0.00195	0.000652	mg/Kg		02/19/19 12:43	02/21/19 16:08	1
Toluene	ND		0.00195	0.000720	mg/Kg		02/19/19 12:43	02/21/19 16:08	1
Xylenes, Total	ND		0.00584	0.00120	mg/Kg		02/19/19 12:43	02/21/19 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				02/19/19 12:43	02/21/19 16:08	1
4-Bromofluorobenzene (Surr)	93		70 - 130				02/19/19 12:43	02/21/19 16:08	1
Dibromofluoromethane (Surr)	121		70 - 130				02/19/19 12:43	02/21/19 16:08	1
Toluene-d8 (Surr)	93		70 - 130				02/19/19 12:43	02/21/19 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.46	2.23	mg/Kg		02/19/19 12:40	02/23/19 10:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150				02/19/19 12:40	02/23/19 10:32	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		4.98	2.49	mg/Kg		02/19/19 14:18	02/22/19 09:21	1
MRO (C28-C35)	ND		4.98	2.49	mg/Kg		02/19/19 14:18	02/22/19 09:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		50 - 150				02/19/19 14:18	02/22/19 09:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		9.89	6.92	mg/Kg			02/20/19 17:21	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 0-1' bgs

Lab Sample ID: 490-168662-60

Date Collected: 02/14/19 12:44

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.91	6.94	mg/Kg			02/20/19 17:36	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 2' bgs

Lab Sample ID: 490-168662-61

Date Collected: 02/14/19 12:46

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 17:51	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 4' bgs

Lab Sample ID: 490-168662-62

Date Collected: 02/14/19 12:49

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		10.0	7.03	mg/Kg			02/20/19 03:00	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 8' bgs

Lab Sample ID: 490-168662-63

Date Collected: 02/14/19 13:14

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		9.94	6.96	mg/Kg			02/20/19 03:50	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 10' bgs

Lab Sample ID: 490-168662-64

Date Collected: 02/14/19 13:22

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/19/19 12:43	02/21/19 16:36	1
Ethylbenzene	ND		0.00196	0.000658	mg/Kg		02/19/19 12:43	02/21/19 16:36	1
Toluene	ND		0.00196	0.000727	mg/Kg		02/19/19 12:43	02/21/19 16:36	1
Xylenes, Total	ND		0.00589	0.00121	mg/Kg		02/19/19 12:43	02/21/19 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				02/19/19 12:43	02/21/19 16:36	1
4-Bromofluorobenzene (Surr)	98		70 - 130				02/19/19 12:43	02/21/19 16:36	1
Dibromofluoromethane (Surr)	127		70 - 130				02/19/19 12:43	02/21/19 16:36	1
Toluene-d8 (Surr)	91		70 - 130				02/19/19 12:43	02/21/19 16:36	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	2.37	mg/Kg		02/19/19 12:40	02/23/19 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/19/19 12:40	02/23/19 11:06	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		02/19/19 14:18	02/21/19 06:16	1
MRO (C28-C35)	ND		4.92	2.46	mg/Kg		02/19/19 14:18	02/21/19 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	115		50 - 150				02/19/19 14:18	02/21/19 06:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		9.86	6.90	mg/Kg			02/21/19 00:31	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-65

Date Collected: 02/14/19 12:19

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.98	6.98	mg/Kg			02/20/19 04:06	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-66

Date Collected: 02/14/19 12:20

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		20.2	14.1	mg/Kg			02/20/19 08:32	2

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-67

Date Collected: 02/14/19 12:22

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.93	6.95	mg/Kg			02/20/19 04:40	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 8' bgs

Lab Sample ID: 490-168662-68

Date Collected: 02/14/19 12:31

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.0		9.89	6.92	mg/Kg			02/20/19 04:56	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 10' bgs

Lab Sample ID: 490-168662-69

Date Collected: 02/14/19 12:34

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00167	0.000559	mg/Kg		02/18/19 13:24	02/18/19 16:48	1
Ethylbenzene	ND		0.00167	0.000559	mg/Kg		02/18/19 13:24	02/18/19 16:48	1
Toluene	0.000640	J	0.00167	0.000618	mg/Kg		02/18/19 13:24	02/18/19 16:48	1
Xylenes, Total	ND		0.00501	0.00103	mg/Kg		02/18/19 13:24	02/18/19 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133	X	70 - 130				02/18/19 13:24	02/18/19 16:48	1
4-Bromofluorobenzene (Surr)	100		70 - 130				02/18/19 13:24	02/18/19 16:48	1
Dibromofluoromethane (Surr)	126		70 - 130				02/18/19 13:24	02/18/19 16:48	1
Toluene-d8 (Surr)	98		70 - 130				02/18/19 13:24	02/18/19 16:48	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		02/18/19 13:23	02/21/19 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150				02/18/19 13:23	02/21/19 15:37	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		4.92	2.46	mg/Kg		02/19/19 14:18	02/22/19 09:38	1
MRO (C28-C35)	ND		4.92	2.46	mg/Kg		02/19/19 14:18	02/22/19 09:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		50 - 150				02/19/19 14:18	02/22/19 09:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4		9.93	6.95	mg/Kg			02/21/19 00:45	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-70

Date Collected: 02/14/19 11:53

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.94	6.96	mg/Kg			02/20/19 05:13	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-71

Date Collected: 02/14/19 11:55

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.03	mg/Kg			02/20/19 05:29	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-72

Date Collected: 02/14/19 11:57

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		9.97	6.98	mg/Kg			02/20/19 05:46	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 8' bgs

Lab Sample ID: 490-168662-73

Date Collected: 02/14/19 12:11

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		10.1	7.06	mg/Kg			02/20/19 06:03	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 9' bgs

Lab Sample ID: 490-168662-74

Date Collected: 02/14/19 12:13

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/18/19 13:24	02/18/19 17:17	1
Ethylbenzene	ND		0.00192	0.000643	mg/Kg		02/18/19 13:24	02/18/19 17:17	1
Toluene	ND		0.00192	0.000710	mg/Kg		02/18/19 13:24	02/18/19 17:17	1
Xylenes, Total	ND		0.00576	0.00118	mg/Kg		02/18/19 13:24	02/18/19 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				02/18/19 13:24	02/18/19 17:17	1
4-Bromofluorobenzene (Surr)	134	X	70 - 130				02/18/19 13:24	02/18/19 17:17	1
Dibromofluoromethane (Surr)	82		70 - 130				02/18/19 13:24	02/18/19 17:17	1
Toluene-d8 (Surr)	81		70 - 130				02/18/19 13:24	02/18/19 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.86	2.43	mg/Kg		02/18/19 13:23	02/21/19 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150				02/18/19 13:23	02/21/19 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.91	2.46	mg/Kg		02/19/19 14:18	02/22/19 09:55	1
MRO (C28-C35)	ND		4.91	2.46	mg/Kg		02/19/19 14:18	02/22/19 09:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	77		50 - 150				02/19/19 14:18	02/22/19 09:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		9.87	6.91	mg/Kg			02/21/19 01:00	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-75

Date Collected: 02/14/19 11:32

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.93	6.95	mg/Kg			02/20/19 06:52	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-76

Date Collected: 02/14/19 11:33

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 07:09	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-77

Date Collected: 02/14/19 11:36

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		9.99	6.99	mg/Kg			02/20/19 07:25	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-08-001 @ 8' bgs

Lab Sample ID: 490-168662-78

Date Collected: 02/14/19 11:50

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/18/19 13:24	02/18/19 17:47	1
Ethylbenzene	ND		0.00190	0.000637	mg/Kg		02/18/19 13:24	02/18/19 17:47	1
Toluene	ND		0.00190	0.000703	mg/Kg		02/18/19 13:24	02/18/19 17:47	1
Xylenes, Total	ND		0.00570	0.00117	mg/Kg		02/18/19 13:24	02/18/19 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				02/18/19 13:24	02/18/19 17:47	1
4-Bromofluorobenzene (Surr)	159	X	70 - 130				02/18/19 13:24	02/18/19 17:47	1
Dibromofluoromethane (Surr)	75		70 - 130				02/18/19 13:24	02/18/19 17:47	1
Toluene-d8 (Surr)	97		70 - 130				02/18/19 13:24	02/18/19 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.40	2.20	mg/Kg		02/18/19 13:23	02/21/19 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/18/19 13:23	02/21/19 16:45	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		4.90	2.45	mg/Kg		02/19/19 14:18	02/22/19 10:11	1
MRO (C28-C35)	ND		4.90	2.45	mg/Kg		02/19/19 14:18	02/22/19 10:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150				02/19/19 14:18	02/22/19 10:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		10.1	7.05	mg/Kg			02/21/19 01:15	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-09-001 @ 0-1' bgs

Lab Sample ID: 490-168662-79

Date Collected: 02/14/19 11:09

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 07:42	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-09-001 @ 2' bgs

Lab Sample ID: 490-168662-80

Date Collected: 02/14/19 11:11

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.10	mg/Kg			02/20/19 07:59	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-09-001 @ 4' bgs

Lab Sample ID: 490-168662-81

Date Collected: 02/14/19 11:15

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5		9.95	6.96	mg/Kg			02/20/19 08:15	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-09-001 @ 8' bgs

Lab Sample ID: 490-168662-82

Date Collected: 02/14/19 11:28

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/18/19 13:24	02/18/19 18:16	1
Ethylbenzene	ND		0.00196	0.000657	mg/Kg		02/18/19 13:24	02/18/19 18:16	1
Toluene	ND		0.00196	0.000725	mg/Kg		02/18/19 13:24	02/18/19 18:16	1
Xylenes, Total	ND		0.00588	0.00121	mg/Kg		02/18/19 13:24	02/18/19 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 130				02/18/19 13:24	02/18/19 18:16	1
4-Bromofluorobenzene (Surr)	108		70 - 130				02/18/19 13:24	02/18/19 18:16	1
Dibromofluoromethane (Surr)	91		70 - 130				02/18/19 13:24	02/18/19 18:16	1
Toluene-d8 (Surr)	106		70 - 130				02/18/19 13:24	02/18/19 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.55	2.28	mg/Kg		02/18/19 13:23	02/21/19 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150				02/18/19 13:23	02/21/19 17:18	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		4.93	2.47	mg/Kg		02/19/19 16:17	02/21/19 14:49	1
MRO (C28-C35)	ND		4.93	2.47	mg/Kg		02/19/19 16:17	02/21/19 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	82		50 - 150				02/19/19 16:17	02/21/19 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		10.0	7.03	mg/Kg			02/20/19 19:49	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-83

Date Collected: 02/14/19 14:09

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 20:33	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-84

Date Collected: 02/14/19 14:11

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.93	6.95	mg/Kg			02/20/19 20:48	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-85

Date Collected: 02/14/19 14:12

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 21:03	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 8' bgs

Lab Sample ID: 490-168662-86

Date Collected: 02/14/19 14:20

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 21:18	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 11' bgs

Lab Sample ID: 490-168662-87

Date Collected: 02/14/19 14:23

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00192	0.000642	mg/Kg		02/18/19 13:24	02/18/19 18:46	1
Ethylbenzene	ND		0.00192	0.000642	mg/Kg		02/18/19 13:24	02/18/19 18:46	1
Toluene	ND		0.00192	0.000709	mg/Kg		02/18/19 13:24	02/18/19 18:46	1
Xylenes, Total	ND		0.00575	0.00118	mg/Kg		02/18/19 13:24	02/18/19 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 130				02/18/19 13:24	02/18/19 18:46	1
4-Bromofluorobenzene (Surr)	107		70 - 130				02/18/19 13:24	02/18/19 18:46	1
Dibromofluoromethane (Surr)	94		70 - 130				02/18/19 13:24	02/18/19 18:46	1
Toluene-d8 (Surr)	103		70 - 130				02/18/19 13:24	02/18/19 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.22	2.11	mg/Kg		02/18/19 13:23	02/21/19 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150				02/18/19 13:23	02/21/19 17:52	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		4.98	2.49	mg/Kg		02/19/19 16:17	02/21/19 15:06	1
MRO (C28-C35)	ND		4.98	2.49	mg/Kg		02/19/19 16:17	02/21/19 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150				02/19/19 16:17	02/21/19 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.88	6.91	mg/Kg			02/20/19 21:33	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-88

Date Collected: 02/14/19 09:56

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.85	6.89	mg/Kg			02/20/19 21:47	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-89

Date Collected: 02/14/19 10:00

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			02/20/19 22:02	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-90

Date Collected: 02/14/19 10:01

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.85	6.90	mg/Kg			02/20/19 22:17	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 8' bgs

Lab Sample ID: 490-168662-91

Date Collected: 02/14/19 10:08

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/20/19 22:32	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 10' bgs

Lab Sample ID: 490-168662-92

Date Collected: 02/14/19 10:12

Matrix: Solid

Date Received: 02/16/19 10:25

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		02/18/19 13:24	02/18/19 19:16	1
Ethylbenzene	ND		0.00178	0.000597	mg/Kg		02/18/19 13:24	02/18/19 19:16	1
Toluene	ND		0.00178	0.000660	mg/Kg		02/18/19 13:24	02/18/19 19:16	1
Xylenes, Total	ND		0.00535	0.00110	mg/Kg		02/18/19 13:24	02/18/19 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130	02/18/19 13:24	02/18/19 19:16	1
4-Bromofluorobenzene (Surr)	108		70 - 130	02/18/19 13:24	02/18/19 19:16	1
Dibromofluoromethane (Surr)	93		70 - 130	02/18/19 13:24	02/18/19 19:16	1
Toluene-d8 (Surr)	104		70 - 130	02/18/19 13:24	02/18/19 19:16	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		02/18/19 13:23	02/21/19 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150	02/18/19 13:23	02/21/19 18:26	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		4.96	2.48	mg/Kg		02/19/19 16:17	02/21/19 15:23	1
MRO (C28-C35)	ND		4.96	2.48	mg/Kg		02/19/19 16:17	02/21/19 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150	02/19/19 16:17	02/21/19 15:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.93	6.95	mg/Kg			02/20/19 23:16	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-93

Date Collected: 02/14/19 15:23

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.09	mg/Kg			02/20/19 23:31	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-94

Date Collected: 02/14/19 15:25

Matrix: Solid

Date Received: 02/16/19 10:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.89	6.92	mg/Kg			02/20/19 23:46	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-95

Date Collected: 02/14/19 15:27

Matrix: Solid

Date Received: 02/16/19 10:25

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			02/21/19 00:01	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-08-001 @ 7' bgs

Lab Sample ID: 490-168662-96

Date Collected: 02/14/19 15:33

Matrix: Solid

Date Received: 02/16/19 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00185	0.000619	mg/Kg		02/18/19 13:24	02/18/19 19:45	1
Ethylbenzene	ND		0.00185	0.000619	mg/Kg		02/18/19 13:24	02/18/19 19:45	1
Toluene	ND		0.00185	0.000684	mg/Kg		02/18/19 13:24	02/18/19 19:45	1
Xylenes, Total	ND		0.00555	0.00114	mg/Kg		02/18/19 13:24	02/18/19 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130				02/18/19 13:24	02/18/19 19:45	1
4-Bromofluorobenzene (Surr)	107		70 - 130				02/18/19 13:24	02/18/19 19:45	1
Dibromofluoromethane (Surr)	95		70 - 130				02/18/19 13:24	02/18/19 19:45	1
Toluene-d8 (Surr)	104		70 - 130				02/18/19 13:24	02/18/19 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.87	2.44	mg/Kg		02/18/19 13:23	02/21/19 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/18/19 13:23	02/21/19 18:59	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		02/19/19 16:17	02/21/19 15:40	1
MRO (C28-C35)	ND		4.97	2.48	mg/Kg		02/19/19 16:17	02/21/19 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150				02/19/19 16:17	02/21/19 15:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.86	6.90	mg/Kg			02/21/19 00:16	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: MB 490-575981/7

Matrix: Solid

Analysis Batch: 575981

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			02/18/19 13:37	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/18/19 13:37	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/18/19 13:37	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			02/18/19 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/18/19 13:37	1
4-Bromofluorobenzene (Surr)	107		70 - 130		02/18/19 13:37	1
Dibromofluoromethane (Surr)	93		70 - 130		02/18/19 13:37	1
Toluene-d8 (Surr)	105		70 - 130		02/18/19 13:37	1

Lab Sample ID: LCS 490-575981/3

Matrix: Solid

Analysis Batch: 575981

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	0.05183		mg/Kg		104	70 - 130
Ethylbenzene	0.0500	0.05130		mg/Kg		103	70 - 130
Toluene	0.0500	0.05098		mg/Kg		102	70 - 130
Xylenes, Total	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 490-575981/4

Matrix: Solid

Analysis Batch: 575981

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	0.05099		mg/Kg		102	70 - 130	2	37
Ethylbenzene	0.0500	0.04982		mg/Kg		100	70 - 130	3	38
Toluene	0.0500	0.04973		mg/Kg		99	70 - 130	2	40
Xylenes, Total	0.100	0.1004		mg/Kg		100	70 - 130	3	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168644-A-2-D MS

Matrix: Solid

Analysis Batch: 575981

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 576019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0134		0.0457	0.05726		mg/Kg		96	21 - 150
Ethylbenzene	ND		0.0457	0.03219		mg/Kg		70	10 - 150
Toluene	ND		0.0457	0.03707		mg/Kg		81	17 - 150
Xylenes, Total	ND		0.0914	0.06046		mg/Kg		66	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	121		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: 490-168644-A-2-E MSD

Matrix: Solid

Analysis Batch: 575981

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 576019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0134		0.0442	0.05732		mg/Kg		99	21 - 150	0	50
Ethylbenzene	ND		0.0442	0.03300		mg/Kg		75	10 - 150	2	50
Toluene	ND		0.0442	0.03826		mg/Kg		87	17 - 150	3	50
Xylenes, Total	ND		0.0883	0.06139		mg/Kg		69	10 - 150	2	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: 490-168662-3 MS

Matrix: Solid

Analysis Batch: 576553

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0485	0.05009		mg/Kg		103	21 - 150
Ethylbenzene	ND		0.0485	0.04740		mg/Kg		98	10 - 150
Toluene	ND		0.0485	0.04769		mg/Kg		98	17 - 150
Xylenes, Total	ND		0.0971	0.09493		mg/Kg		98	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-3 MSD

Matrix: Solid

Analysis Batch: 576553

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		0.0489	0.05015		mg/Kg		102	21 - 150	0	50
Ethylbenzene	ND		0.0489	0.04826		mg/Kg		99	10 - 150	2	50
Toluene	ND		0.0489	0.04829		mg/Kg		99	17 - 150	1	50
Xylenes, Total	ND		0.0978	0.09520		mg/Kg		97	10 - 150	0	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 490-168662-64 MS

Matrix: Solid

Analysis Batch: 576640

Client Sample ID: SRP-SB-05-001 @ 10' bgs

Prep Type: Total/NA

Prep Batch: 576258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		0.0497	0.05131		mg/Kg		103	21 - 150		
Ethylbenzene	ND		0.0497	0.04805		mg/Kg		97	10 - 150		
Toluene	ND		0.0497	0.04882		mg/Kg		98	17 - 150		
Xylenes, Total	ND		0.0994	0.09771		mg/Kg		98	10 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-168662-64 MSD

Matrix: Solid

Analysis Batch: 576640

Client Sample ID: SRP-SB-05-001 @ 10' bgs

Prep Type: Total/NA

Prep Batch: 576258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		0.0468	0.05051		mg/Kg		108	21 - 150	2	50
Ethylbenzene	ND		0.0468	0.04825		mg/Kg		103	10 - 150	0	50
Toluene	ND		0.0468	0.04866		mg/Kg		104	17 - 150	0	50
Xylenes, Total	ND		0.0936	0.09551		mg/Kg		102	10 - 150	2	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: MB 490-576553/7

Matrix: Solid

Analysis Batch: 576553

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			02/20/19 18:50	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/20/19 18:50	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/20/19 18:50	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			02/20/19 18:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		02/20/19 18:50	1
4-Bromofluorobenzene (Surr)	98		70 - 130		02/20/19 18:50	1
Dibromofluoromethane (Surr)	121		70 - 130		02/20/19 18:50	1
Toluene-d8 (Surr)	93		70 - 130		02/20/19 18:50	1

Lab Sample ID: LCS 490-576553/3

Matrix: Solid

Analysis Batch: 576553

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	0.04993		mg/Kg		100	70 - 130
Ethylbenzene	0.0500	0.04704		mg/Kg		94	70 - 130
Toluene	0.0500	0.04731		mg/Kg		95	70 - 130
Xylenes, Total	0.100	0.09581		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-576553/4

Matrix: Solid

Analysis Batch: 576553

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	0.04871		mg/Kg		97	70 - 130	2	37
Ethylbenzene	0.0500	0.04723		mg/Kg		94	70 - 130	0	38
Toluene	0.0500	0.04725		mg/Kg		94	70 - 130	0	40
Xylenes, Total	0.100	0.09451		mg/Kg		95	70 - 130	1	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: MB 490-576640/7

Matrix: Solid

Analysis Batch: 576640

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			02/21/19 13:40	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/21/19 13:40	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/21/19 13:40	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			02/21/19 13:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		02/21/19 13:40	1
4-Bromofluorobenzene (Surr)	95		70 - 130		02/21/19 13:40	1
Dibromofluoromethane (Surr)	122		70 - 130		02/21/19 13:40	1
Toluene-d8 (Surr)	92		70 - 130		02/21/19 13:40	1

Lab Sample ID: LCS 490-576640/3

Matrix: Solid

Analysis Batch: 576640

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	0.05050		mg/Kg		101	70 - 130
Ethylbenzene	0.0500	0.04986		mg/Kg		100	70 - 130
Toluene	0.0500	0.04984		mg/Kg		100	70 - 130
Xylenes, Total	0.100	0.09914		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-576640/4

Matrix: Solid

Analysis Batch: 576640

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	0.05100		mg/Kg		102	70 - 130	1	37
Ethylbenzene	0.0500	0.04696		mg/Kg		94	70 - 130	6	38
Toluene	0.0500	0.04793		mg/Kg		96	70 - 130	4	40
Xylenes, Total	0.100	0.09730		mg/Kg		97	70 - 130	2	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: MB 490-576017/1-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576017

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		02/18/19 11:45	02/21/19 15:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150				02/18/19 11:45	02/21/19 15:04	1

Lab Sample ID: LCS 490-576017/2-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	500	548.6		mg/Kg		110	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	115		50 - 150						

Lab Sample ID: LCSD 490-576017/3-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576017

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]	500	591.6		mg/Kg		118	70 - 130	8	21
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	118		50 - 150						

Lab Sample ID: 490-168662-96 MS

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: HDP-SB-08-001 @ 7' bgs

Prep Type: Total/NA

Prep Batch: 576017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		487	341.1		mg/Kg		70	56 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
a,a,a-Trifluorotoluene	102		50 - 150								

Lab Sample ID: 490-168662-96 MSD

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: HDP-SB-08-001 @ 7' bgs

Prep Type: Total/NA

Prep Batch: 576017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]	ND		487	366.2		mg/Kg		75	56 - 130	7	21

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-96 MSD

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: HDP-SB-08-001 @ 7' bgs

Prep Type: Total/NA

Prep Batch: 576017

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	106		50 - 150

Lab Sample ID: MB 490-576251/1-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576251

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics [C6 - C10]	ND		5.00	2.50	mg/Kg		02/19/19 12:38	02/22/19 23:54	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	96		50 - 150	02/19/19 12:38	02/22/19 23:54	1			

Lab Sample ID: LCS 490-576251/2-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576251

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]			500	560.0		mg/Kg		112	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
a,a,a-Trifluorotoluene	104		50 - 150								

Lab Sample ID: LCSD 490-576251/3-A

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576251

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics [C6 - C10]			500	558.5		mg/Kg		112	70 - 130	0	21
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
a,a,a-Trifluorotoluene	113		50 - 150								

Lab Sample ID: 490-168662-3 MS

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576251

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]	ND		489	494.4		mg/Kg		101	56 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
a,a,a-Trifluorotoluene	110		50 - 150								

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-3 MSD

Matrix: Solid

Analysis Batch: 576634

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576251

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		489	532.4		mg/Kg		109	56 - 130	7	21
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
a,a,a-Trifluorotoluene	113		50 - 150								

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

Lab Sample ID: MB 490-576297/1-A

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576297

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		02/19/19 14:18	02/22/19 03:45	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		02/19/19 14:18	02/22/19 03:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	75		50 - 150				02/19/19 14:18	02/22/19 03:45	1

Lab Sample ID: LCS 490-576297/2-A

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	40.0	33.91		mg/Kg		85	54 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl (Surr)	78		50 - 150						

Lab Sample ID: LCSD 490-576297/25-A

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	40.0	37.21		mg/Kg		93	54 - 130	9	47
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl (Surr)	83		50 - 150						

Lab Sample ID: 490-168662-3 MS

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	ND		39.8	33.04		mg/Kg		83	10 - 142		

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	70		50 - 150

Lab Sample ID: 490-168662-3 MSD

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: NRP-BG-001 @ 4' bgs

Prep Type: Total/NA

Prep Batch: 576297

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		39.1	30.26		mg/Kg		77	10 - 142	9	47

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	66		50 - 150

Lab Sample ID: MB 490-576332/1-A

Matrix: Solid

Analysis Batch: 576486

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576332

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		02/19/19 16:17	02/21/19 06:16	1
MRO (C28-C35)	ND		5.00	2.50	mg/Kg		02/19/19 16:17	02/21/19 06:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	70		50 - 150	02/19/19 16:17	02/21/19 06:16	1

Lab Sample ID: LCS 490-576332/2-A

Matrix: Solid

Analysis Batch: 576486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	40.0	33.53		mg/Kg		84	54 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	71		50 - 150

Lab Sample ID: LCSD 490-576332/3-A

Matrix: Solid

Analysis Batch: 576486

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	40.0	31.77		mg/Kg		79	54 - 130	5	47

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

Lab Sample ID: 490-168662-39 MS

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: NRP-SB-12-001 @ 2' bgs

Prep Type: Total/NA

Prep Batch: 576332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		39.6	29.19		mg/Kg		74	10 - 142

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Lab Sample ID: 490-168662-39 MS

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: NRP-SB-12-001 @ 2' bgs

Prep Type: Total/NA

Prep Batch: 576332

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	61		50 - 150

Lab Sample ID: 490-168662-39 MSD

Matrix: Solid

Analysis Batch: 576719

Client Sample ID: NRP-SB-12-001 @ 2' bgs

Prep Type: Total/NA

Prep Batch: 576332

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		39.1	32.69		mg/Kg	-	84	10 - 142	11	47
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
<i>o</i> -Terphenyl (Surr)	70		50 - 150								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-576767/3

Matrix: Solid

Analysis Batch: 576767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/Kg			02/21/19 13:14	1

Lab Sample ID: LCS 490-576767/4

Matrix: Solid

Analysis Batch: 576767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.895		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 490-576767/5

Matrix: Solid

Analysis Batch: 576767

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
Chloride	10.0	10.10		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 490-576127/1-A

Matrix: Solid

Analysis Batch: 576270

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			02/19/19 09:02	1

Lab Sample ID: LCS 490-576127/2-A

Matrix: Solid

Analysis Batch: 576270

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	96.61		mg/Kg		96	90 - 110

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Lab Sample ID: LCSD 490-576127/3-A
Matrix: Solid
Analysis Batch: 576270

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	99.5	96.55		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 490-168662-1 MS
Matrix: Solid
Analysis Batch: 576270

Client Sample ID: NRP-BG-001 @ 0-1' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		99.4	91.38		mg/Kg		92	80 - 120		

Lab Sample ID: 490-168662-1 MSD
Matrix: Solid
Analysis Batch: 576270

Client Sample ID: NRP-BG-001 @ 0-1' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		99.7	96.72		mg/Kg		97	80 - 120	6	20

Lab Sample ID: MB 490-576220/1-A
Matrix: Solid
Analysis Batch: 576278

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			02/19/19 16:41	1

Lab Sample ID: LCS 490-576220/2-A
Matrix: Solid
Analysis Batch: 576278

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.6	94.83		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 490-576220/3-A
Matrix: Solid
Analysis Batch: 576278

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	98.93		mg/Kg		98	90 - 110	4	20

Lab Sample ID: 490-168662-21 MS
Matrix: Solid
Analysis Batch: 576278

Client Sample ID: NRP-SB-06-001 @ 5.75' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	559	E	99.4	590.5	E 4	mg/Kg		31	80 - 120		

Lab Sample ID: 490-168662-21 MSD
Matrix: Solid
Analysis Batch: 576278

Client Sample ID: NRP-SB-06-001 @ 5.75' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	559	E	99.6	631.4	E 4	mg/Kg		72	80 - 120	7	20

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 490-576340/1-A

Matrix: Solid

Analysis Batch: 576373

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			02/20/19 02:10	1

Lab Sample ID: LCS 490-576340/2-A

Matrix: Solid

Analysis Batch: 576373

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	96.9	91.26		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 490-576340/3-A

Matrix: Solid

Analysis Batch: 576373

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	99.9	93.72		mg/Kg		94	90 - 110	3	20

Lab Sample ID: 490-168662-62 MS

Matrix: Solid

Analysis Batch: 576373

Client Sample ID: SRP-SB-05-001 @ 4' bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.6		100	126.2		mg/Kg		110	80 - 120

Lab Sample ID: 490-168662-62 MSD

Matrix: Solid

Analysis Batch: 576373

Client Sample ID: SRP-SB-05-001 @ 4' bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.6		99.6	116.2		mg/Kg		101	80 - 120	8	20

Lab Sample ID: MB 490-576127/1-A

Matrix: Solid

Analysis Batch: 576401

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.99	6.99	mg/Kg			02/20/19 08:28	1

Lab Sample ID: LCS 490-576127/2-A

Matrix: Solid

Analysis Batch: 576401

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.23		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 490-576127/3-A

Matrix: Solid

Analysis Batch: 576401

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	99.5	97.77		mg/Kg		98	90 - 110	1	20

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Lab Sample ID: MB 490-576388/1-A
Matrix: Solid
Analysis Batch: 576430

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.98	6.99	mg/Kg			02/20/19 11:26	1

Lab Sample ID: LCS 490-576388/2-A
Matrix: Solid
Analysis Batch: 576430

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.45		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 490-576388/3-A
Matrix: Solid
Analysis Batch: 576430

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	99.09		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 490-168662-42 MS
Matrix: Solid
Analysis Batch: 576430

Client Sample ID: SRP-SB-01-001 @ 0-1' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		99.4	95.95		mg/Kg		96	80 - 120

Lab Sample ID: 490-168662-42 MSD
Matrix: Solid
Analysis Batch: 576430

Client Sample ID: SRP-SB-01-001 @ 0-1' bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		99.6	96.02		mg/Kg		96	80 - 120	0	20

Lab Sample ID: MB 490-576390/1-A
Matrix: Solid
Analysis Batch: 576448

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.97	6.98	mg/Kg			02/20/19 19:05	1

Lab Sample ID: LCS 490-576390/2-A
Matrix: Solid
Analysis Batch: 576448

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99.7	95.88		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 490-576390/3-A
Matrix: Solid
Analysis Batch: 576448

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	99.8	97.52		mg/Kg		98	90 - 110	2	20

TestAmerica Nashville

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-168662-82 MS

Matrix: Solid

Analysis Batch: 576448

Client Sample ID: SRP-SB-09-001 @ 8' bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17.5		100	111.1		mg/Kg		93	80 - 120

Lab Sample ID: 490-168662-82 MSD

Matrix: Solid

Analysis Batch: 576448

Client Sample ID: SRP-SB-09-001 @ 8' bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.5		99.6	112.7		mg/Kg		96	80 - 120	1	20

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

GC/MS VOA

Analysis Batch: 575981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	8260B	576019
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	8260B	576019
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	8260B	576019
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	8260B	576019
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	8260B	576019
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	8260B	576019
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	8260B	576019
MB 490-575981/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-575981/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-575981/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-168644-A-2-D MS	Matrix Spike	Total/NA	Solid	8260B	576019
490-168644-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	576019

Prep Batch: 576019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	5030B	
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	5030B	
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	5030B	
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	5030B	
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	5030B	
490-168644-A-2-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-168644-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Prep Batch: 576258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-8	SRP-BG-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	5030B	
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	5030B	
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	5030B	
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	5030B	
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	5030B	
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	5030B	
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	5030B	
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	5030B	
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	5030B	
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	5030B	
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	5030B	
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	5030B	
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-64 MS	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-64 MSD	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	5030B	

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Analysis Batch: 576553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8260B	576258
490-168662-8	SRP-BG-001 @ 10' bgs	Total/NA	Solid	8260B	576258
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	8260B	576258
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	8260B	576258
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	8260B	576258
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	8260B	576258
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	8260B	576258
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	8260B	576258
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	8260B	576258
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	8260B	576258
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	8260B	576258
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	8260B	576258
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	8260B	576258
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	8260B	576258
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	8260B	576258
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	8260B	576258
MB 490-576553/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-576553/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-576553/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8260B	576258
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8260B	576258

Analysis Batch: 576640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	8260B	576258
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	8260B	576258
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	8260B	576258
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	8260B	576258
MB 490-576640/7	Method Blank	Total/NA	Solid	8260B	
LCS 490-576640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-576640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-168662-64 MS	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	8260B	576258
490-168662-64 MSD	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	8260B	576258

GC VOA

Prep Batch: 576017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	5030B	
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	5030B	
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	5030B	
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	5030B	
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	5030B	
MB 490-576017/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 490-576017/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 490-576017/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
490-168662-96 MS	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	5030B	
490-168662-96 MSD	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	5030B	

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

GC VOA (Continued)

Prep Batch: 576251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-8	SRP-BG-001@ 10' bgs	Total/NA	Solid	5030B	
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	5030B	
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	5030B	
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	5030B	
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	5030B	
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	5030B	
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	5030B	
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	5030B	
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	5030B	
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	5030B	
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	5030B	
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	5030B	
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	5030B	
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	5030B	
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	5030B	
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	5030B	
MB 490-576251/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 490-576251/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 490-576251/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	5030B	

Analysis Batch: 576634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576251
490-168662-8	SRP-BG-001@ 10' bgs	Total/NA	Solid	8015B	576251
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	8015B	576251
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	8015B	576251
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	8015B	576251
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	8015B	576251
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	8015B	576251
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	8015B	576251
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	8015B	576251
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	8015B	576251
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	8015B	576251
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	8015B	576251
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	8015B	576251
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	8015B	576251
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	8015B	576251
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	8015B	576251
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	8015B	576251
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	8015B	576251
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	8015B	576251
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	8015B	576251
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	8015B	576017
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	8015B	576017
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	8015B	576017

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

GC VOA (Continued)

Analysis Batch: 576634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	8015B	576017
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	8015B	576017
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	8015B	576017
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	8015B	576017
MB 490-576017/1-A	Method Blank	Total/NA	Solid	8015B	576017
MB 490-576251/1-A	Method Blank	Total/NA	Solid	8015B	576251
LCS 490-576017/2-A	Lab Control Sample	Total/NA	Solid	8015B	576017
LCS 490-576251/2-A	Lab Control Sample	Total/NA	Solid	8015B	576251
LCSD 490-576017/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	576017
LCSD 490-576251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	576251
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576251
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576251
490-168662-96 MS	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	8015B	576017
490-168662-96 MSD	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	8015B	576017

GC Semi VOA

Prep Batch: 576297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	3550C	
490-168662-8	SRP-BG-001 @ 10' bgs	Total/NA	Solid	3550C	
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	3550C	
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	3550C	
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	3550C	
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	3550C	
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	3550C	
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	3550C	
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	3550C	
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	3550C	
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	3550C	
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	3550C	
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	3550C	
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	3550C	
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	3550C	
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	3550C	
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	3550C	
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	3550C	
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	3550C	
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	3550C	
MB 490-576297/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-576297/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-576297/25-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	3550C	
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	3550C	

Prep Batch: 576332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	3550C	
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	3550C	
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	3550C	

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

GC Semi VOA (Continued)

Prep Batch: 576332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	3550C	
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	3550C	
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	3550C	
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	3550C	
MB 490-576332/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-576332/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-576332/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
490-168662-39 MS	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	3550C	
490-168662-39 MSD	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	3550C	

Analysis Batch: 576486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-576332/1-A	Method Blank	Total/NA	Solid	8015B	576332
LCS 490-576332/2-A	Lab Control Sample	Total/NA	Solid	8015B	576332
LCSD 490-576332/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	576332

Analysis Batch: 576489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-45	SRP-SB-01-001 @ 7' bgs	Total/NA	Solid	8015B	576297
490-168662-54	SRP-SB-03-001 @ 10' bgs	Total/NA	Solid	8015B	576297
490-168662-64	SRP-SB-05-001 @ 10' bgs	Total/NA	Solid	8015B	576297

Analysis Batch: 576719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576297
490-168662-8	SRP-BG-001 @ 10' bgs	Total/NA	Solid	8015B	576297
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Total/NA	Solid	8015B	576297
490-168662-12	NRP-SB-02-001 @ 2' bgs	Total/NA	Solid	8015B	576297
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Total/NA	Solid	8015B	576297
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Total/NA	Solid	8015B	576297
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Total/NA	Solid	8015B	576297
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Total/NA	Solid	8015B	576297
490-168662-24	NRP-SB-07-001 @ 4' bgs	Total/NA	Solid	8015B	576297
490-168662-29	NRP-SB-08-001 @ 9' bgs	Total/NA	Solid	8015B	576297
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Total/NA	Solid	8015B	576297
490-168662-35	NRP-SB-10-001 @ 3' bgs	Total/NA	Solid	8015B	576297
490-168662-37	NRP-SB-11-001 @ 2' bgs	Total/NA	Solid	8015B	576332
490-168662-39	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	8015B	576332
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Total/NA	Solid	8015B	576332
490-168662-49	SRP-SB-02-001 @ 6' bgs	Total/NA	Solid	8015B	576297
490-168662-59	SRP-SB-04-001 @ 11' bgs	Total/NA	Solid	8015B	576297
490-168662-69	SRP-SB-06-001 @ 10' bgs	Total/NA	Solid	8015B	576297
490-168662-74	SRP-SB-07-001 @ 9' bgs	Total/NA	Solid	8015B	576297
490-168662-78	SRP-SB-08-001 @ 8' bgs	Total/NA	Solid	8015B	576297
490-168662-82	SRP-SB-09-001 @ 8' bgs	Total/NA	Solid	8015B	576332
490-168662-87	HDP-SB-06-001 @ 11' bgs	Total/NA	Solid	8015B	576332
490-168662-92	HDP-SB-07-001 @ 10' bgs	Total/NA	Solid	8015B	576332
490-168662-96	HDP-SB-08-001 @ 7' bgs	Total/NA	Solid	8015B	576332
MB 490-576297/1-A	Method Blank	Total/NA	Solid	8015B	576297
LCS 490-576297/2-A	Lab Control Sample	Total/NA	Solid	8015B	576297
LCSD 490-576297/25-A	Lab Control Sample Dup	Total/NA	Solid	8015B	576297

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

GC Semi VOA (Continued)

Analysis Batch: 576719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-3 MS	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576297
490-168662-3 MSD	NRP-BG-001 @ 4' bgs	Total/NA	Solid	8015B	576297
490-168662-39 MS	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	8015B	576332
490-168662-39 MSD	NRP-SB-12-001 @ 2' bgs	Total/NA	Solid	8015B	576332

HPLC/IC

Leach Batch: 576127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-1	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-2	NRP-BG-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-3	NRP-BG-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-4	SRP-BG-001@ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-5	SRP-BG-001@ 2' bgs	Soluble	Solid	DI Leach	
490-168662-6	SRP-BG-001@ 4' bgs	Soluble	Solid	DI Leach	
490-168662-7	SRP-BG-001@ 8' bgs	Soluble	Solid	DI Leach	
490-168662-8	SRP-BG-001@ 10' bgs	Soluble	Solid	DI Leach	
490-168662-9	NRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Soluble	Solid	DI Leach	
490-168662-11	NRP-SB-02-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-12	NRP-SB-02-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-14	NRP-SB-04-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Soluble	Solid	DI Leach	
490-168662-16	NRP-SB-05-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Soluble	Solid	DI Leach	
490-168662-18	NRP-SB-06-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-19	NRP-SB-06-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-20	NRP-SB-06-001 @ 4' bgs	Soluble	Solid	DI Leach	
MB 490-576127/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-576127/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-576127/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-168662-1 MS	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-1 MSD	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	DI Leach	

Leach Batch: 576220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	DI Leach	
490-168662-22	NRP-SB-07-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-23	NRP-SB-07-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-24	NRP-SB-07-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-25	NRP-SB-08-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-26	NRP-SB-08-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-27	NRP-SB-08-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-28	NRP-SB-08-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-29	NRP-SB-08-001 @ 9' bgs	Soluble	Solid	DI Leach	
490-168662-30	NRP-SB-09-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-31	NRP-SB-09-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Soluble	Solid	DI Leach	
490-168662-33	NRP-SB-10-001 @ 0-1' bgs	Soluble	Solid	DI Leach	

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

HPLC/IC (Continued)

Leach Batch: 576220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-34	NRP-SB-10-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-35	NRP-SB-10-001 @ 3' bgs	Soluble	Solid	DI Leach	
490-168662-36	NRP-SB-11-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-37	NRP-SB-11-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-38	NRP-SB-12-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-39	NRP-SB-12-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
MB 490-576220/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-576220/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-576220/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-168662-21 MS	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	DI Leach	
490-168662-21 MSD	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	DI Leach	

Analysis Batch: 576270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-1	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-2	NRP-BG-001 @ 2' bgs	Soluble	Solid	300.0	576127
490-168662-3	NRP-BG-001 @ 4' bgs	Soluble	Solid	300.0	576127
490-168662-4	SRP-BG-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-5	SRP-BG-001 @ 2' bgs	Soluble	Solid	300.0	576127
490-168662-6	SRP-BG-001 @ 4' bgs	Soluble	Solid	300.0	576127
490-168662-7	SRP-BG-001 @ 8' bgs	Soluble	Solid	300.0	576127
490-168662-8	SRP-BG-001 @ 10' bgs	Soluble	Solid	300.0	576127
490-168662-9	NRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-10	NRP-SB-01-001 @ 1.5' bgs	Soluble	Solid	300.0	576127
490-168662-11	NRP-SB-02-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-12	NRP-SB-02-001 @ 2' bgs	Soluble	Solid	300.0	576127
490-168662-13	NRP-SB-03-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-14	NRP-SB-04-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-15	NRP-SB-04-001 @ 1.5' bgs	Soluble	Solid	300.0	576127
490-168662-16	NRP-SB-05-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-17	NRP-SB-05-001 @ 1.75' bgs	Soluble	Solid	300.0	576127
490-168662-18	NRP-SB-06-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-19	NRP-SB-06-001 @ 2' bgs	Soluble	Solid	300.0	576127
MB 490-576127/1-A	Method Blank	Soluble	Solid	300.0	576127
LCS 490-576127/2-A	Lab Control Sample	Soluble	Solid	300.0	576127
LCSD 490-576127/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576127
490-168662-1 MS	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	300.0	576127
490-168662-1 MSD	NRP-BG-001 @ 0-1' bgs	Soluble	Solid	300.0	576127

Analysis Batch: 576278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-22	NRP-SB-07-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-23	NRP-SB-07-001 @ 2' bgs	Soluble	Solid	300.0	576220
490-168662-25	NRP-SB-08-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-26	NRP-SB-08-001 @ 2' bgs	Soluble	Solid	300.0	576220
490-168662-27	NRP-SB-08-001 @ 4' bgs	Soluble	Solid	300.0	576220
490-168662-28	NRP-SB-08-001 @ 8' bgs	Soluble	Solid	300.0	576220
490-168662-29	NRP-SB-08-001 @ 9' bgs	Soluble	Solid	300.0	576220
490-168662-30	NRP-SB-09-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-31	NRP-SB-09-001 @ 2' bgs	Soluble	Solid	300.0	576220

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

HPLC/IC (Continued)

Analysis Batch: 576278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-32	NRP-SB-09-001 @ 3.5' bgs	Soluble	Solid	300.0	576220
490-168662-33	NRP-SB-10-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-34	NRP-SB-10-001 @ 2' bgs	Soluble	Solid	300.0	576220
490-168662-35	NRP-SB-10-001 @ 3' bgs	Soluble	Solid	300.0	576220
490-168662-36	NRP-SB-11-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-37	NRP-SB-11-001 @ 2' bgs	Soluble	Solid	300.0	576220
490-168662-38	NRP-SB-12-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
490-168662-40	NRP-SB-13-001 @ 0-1' bgs	Soluble	Solid	300.0	576220
MB 490-576220/1-A	Method Blank	Soluble	Solid	300.0	576220
LCS 490-576220/2-A	Lab Control Sample	Soluble	Solid	300.0	576220
LCSD 490-576220/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576220
490-168662-21 MS	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	300.0	576220
490-168662-21 MSD	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	300.0	576220

Leach Batch: 576340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-62	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-63	SRP-SB-05-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-65	SRP-SB-06-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-66	SRP-SB-06-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-67	SRP-SB-06-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-68	SRP-SB-06-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-70	SRP-SB-07-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-71	SRP-SB-07-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-72	SRP-SB-07-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-73	SRP-SB-07-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-75	SRP-SB-08-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-76	SRP-SB-08-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-77	SRP-SB-08-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-79	SRP-SB-09-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-80	SRP-SB-09-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-81	SRP-SB-09-001 @ 4' bgs	Soluble	Solid	DI Leach	
MB 490-576340/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-576340/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-576340/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-168662-62 MS	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-62 MSD	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	DI Leach	

Analysis Batch: 576373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-62	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	300.0	576340
490-168662-63	SRP-SB-05-001 @ 8' bgs	Soluble	Solid	300.0	576340
490-168662-65	SRP-SB-06-001 @ 0-1' bgs	Soluble	Solid	300.0	576340
490-168662-66	SRP-SB-06-001 @ 2' bgs	Soluble	Solid	300.0	576340
490-168662-67	SRP-SB-06-001 @ 4' bgs	Soluble	Solid	300.0	576340
490-168662-68	SRP-SB-06-001 @ 8' bgs	Soluble	Solid	300.0	576340
490-168662-70	SRP-SB-07-001 @ 0-1' bgs	Soluble	Solid	300.0	576340
490-168662-71	SRP-SB-07-001 @ 2' bgs	Soluble	Solid	300.0	576340
490-168662-72	SRP-SB-07-001 @ 4' bgs	Soluble	Solid	300.0	576340
490-168662-73	SRP-SB-07-001 @ 8' bgs	Soluble	Solid	300.0	576340
490-168662-75	SRP-SB-08-001 @ 0-1' bgs	Soluble	Solid	300.0	576340

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

HPLC/IC (Continued)

Analysis Batch: 576373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-76	SRP-SB-08-001 @ 2' bgs	Soluble	Solid	300.0	576340
490-168662-77	SRP-SB-08-001 @ 4' bgs	Soluble	Solid	300.0	576340
490-168662-79	SRP-SB-09-001 @ 0-1' bgs	Soluble	Solid	300.0	576340
490-168662-80	SRP-SB-09-001 @ 2' bgs	Soluble	Solid	300.0	576340
490-168662-81	SRP-SB-09-001 @ 4' bgs	Soluble	Solid	300.0	576340
MB 490-576340/1-A	Method Blank	Soluble	Solid	300.0	576340
LCS 490-576340/2-A	Lab Control Sample	Soluble	Solid	300.0	576340
LCSD 490-576340/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576340
490-168662-62 MS	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	300.0	576340
490-168662-62 MSD	SRP-SB-05-001 @ 4' bgs	Soluble	Solid	300.0	576340

Leach Batch: 576388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-42	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-43	SRP-SB-01-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-44	SRP-SB-01-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-45	SRP-SB-01-001 @ 7' bgs	Soluble	Solid	DI Leach	
490-168662-46	SRP-SB-02-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-47	SRP-SB-02-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-48	SRP-SB-02-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-49	SRP-SB-02-001 @ 6' bgs	Soluble	Solid	DI Leach	
490-168662-50	SRP-SB-03-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-51	SRP-SB-03-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-52	SRP-SB-03-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-53	SRP-SB-03-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-54	SRP-SB-03-001 @ 10' bgs	Soluble	Solid	DI Leach	
490-168662-55	SRP-SB-04-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-56	SRP-SB-04-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-57	SRP-SB-04-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-58	SRP-SB-04-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-59	SRP-SB-04-001 @ 11' bgs	Soluble	Solid	DI Leach	
490-168662-60	SRP-SB-05-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-61	SRP-SB-05-001 @ 2' bgs	Soluble	Solid	DI Leach	
MB 490-576388/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-576388/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-576388/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-168662-42 MS	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-42 MSD	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	DI Leach	

Leach Batch: 576390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-64	SRP-SB-05-001 @ 10' bgs	Soluble	Solid	DI Leach	
490-168662-69	SRP-SB-06-001 @ 10' bgs	Soluble	Solid	DI Leach	
490-168662-74	SRP-SB-07-001 @ 9' bgs	Soluble	Solid	DI Leach	
490-168662-78	SRP-SB-08-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-82	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-83	HDP-SB-06-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-84	HDP-SB-06-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-85	HDP-SB-06-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-86	HDP-SB-06-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-87	HDP-SB-06-001 @ 11' bgs	Soluble	Solid	DI Leach	

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

HPLC/IC (Continued)

Leach Batch: 576390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-88	HDP-SB-07-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-89	HDP-SB-07-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-90	HDP-SB-07-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-91	HDP-SB-07-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-92	HDP-SB-07-001 @ 10' bgs	Soluble	Solid	DI Leach	
490-168662-93	HDP-SB-08-001 @ 0-1' bgs	Soluble	Solid	DI Leach	
490-168662-94	HDP-SB-08-001 @ 2' bgs	Soluble	Solid	DI Leach	
490-168662-95	HDP-SB-08-001 @ 4' bgs	Soluble	Solid	DI Leach	
490-168662-96	HDP-SB-08-001 @ 7' bgs	Soluble	Solid	DI Leach	
MB 490-576390/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-576390/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-576390/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-168662-82 MS	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	DI Leach	
490-168662-82 MSD	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	DI Leach	

Analysis Batch: 576401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-20	NRP-SB-06-001 @ 4' bgs	Soluble	Solid	300.0	576127
490-168662-21	NRP-SB-06-001 @ 5.75' bgs	Soluble	Solid	300.0	576220
490-168662-24	NRP-SB-07-001 @ 4' bgs	Soluble	Solid	300.0	576220
490-168662-39	NRP-SB-12-001 @ 2' bgs	Soluble	Solid	300.0	576220
MB 490-576127/1-A	Method Blank	Soluble	Solid	300.0	576127
LCS 490-576127/2-A	Lab Control Sample	Soluble	Solid	300.0	576127
LCSD 490-576127/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576127

Analysis Batch: 576430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-42	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-43	SRP-SB-01-001 @ 2' bgs	Soluble	Solid	300.0	576388
490-168662-46	SRP-SB-02-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-47	SRP-SB-02-001 @ 2' bgs	Soluble	Solid	300.0	576388
490-168662-48	SRP-SB-02-001 @ 4' bgs	Soluble	Solid	300.0	576388
490-168662-49	SRP-SB-02-001 @ 6' bgs	Soluble	Solid	300.0	576388
490-168662-50	SRP-SB-03-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-51	SRP-SB-03-001 @ 2' bgs	Soluble	Solid	300.0	576388
490-168662-52	SRP-SB-03-001 @ 4' bgs	Soluble	Solid	300.0	576388
490-168662-53	SRP-SB-03-001 @ 8' bgs	Soluble	Solid	300.0	576388
490-168662-54	SRP-SB-03-001 @ 10' bgs	Soluble	Solid	300.0	576388
490-168662-55	SRP-SB-04-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-56	SRP-SB-04-001 @ 2' bgs	Soluble	Solid	300.0	576388
490-168662-57	SRP-SB-04-001 @ 4' bgs	Soluble	Solid	300.0	576388
490-168662-58	SRP-SB-04-001 @ 8' bgs	Soluble	Solid	300.0	576388
490-168662-59	SRP-SB-04-001 @ 11' bgs	Soluble	Solid	300.0	576388
490-168662-60	SRP-SB-05-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-61	SRP-SB-05-001 @ 2' bgs	Soluble	Solid	300.0	576388
MB 490-576388/1-A	Method Blank	Soluble	Solid	300.0	576388
LCS 490-576388/2-A	Lab Control Sample	Soluble	Solid	300.0	576388
LCSD 490-576388/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576388
490-168662-42 MS	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	300.0	576388
490-168662-42 MSD	SRP-SB-01-001 @ 0-1' bgs	Soluble	Solid	300.0	576388

TestAmerica Nashville

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

HPLC/IC (Continued)

Analysis Batch: 576448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-64	SRP-SB-05-001 @ 10' bgs	Soluble	Solid	300.0	576390
490-168662-69	SRP-SB-06-001 @ 10' bgs	Soluble	Solid	300.0	576390
490-168662-74	SRP-SB-07-001 @ 9' bgs	Soluble	Solid	300.0	576390
490-168662-78	SRP-SB-08-001 @ 8' bgs	Soluble	Solid	300.0	576390
490-168662-82	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	300.0	576390
490-168662-83	HDP-SB-06-001 @ 0-1' bgs	Soluble	Solid	300.0	576390
490-168662-84	HDP-SB-06-001 @ 2' bgs	Soluble	Solid	300.0	576390
490-168662-85	HDP-SB-06-001 @ 4' bgs	Soluble	Solid	300.0	576390
490-168662-86	HDP-SB-06-001 @ 8' bgs	Soluble	Solid	300.0	576390
490-168662-87	HDP-SB-06-001 @ 11' bgs	Soluble	Solid	300.0	576390
490-168662-88	HDP-SB-07-001 @ 0-1' bgs	Soluble	Solid	300.0	576390
490-168662-89	HDP-SB-07-001 @ 2' bgs	Soluble	Solid	300.0	576390
490-168662-90	HDP-SB-07-001 @ 4' bgs	Soluble	Solid	300.0	576390
490-168662-91	HDP-SB-07-001 @ 8' bgs	Soluble	Solid	300.0	576390
490-168662-92	HDP-SB-07-001 @ 10' bgs	Soluble	Solid	300.0	576390
490-168662-93	HDP-SB-08-001 @ 0-1' bgs	Soluble	Solid	300.0	576390
490-168662-94	HDP-SB-08-001 @ 2' bgs	Soluble	Solid	300.0	576390
490-168662-95	HDP-SB-08-001 @ 4' bgs	Soluble	Solid	300.0	576390
490-168662-96	HDP-SB-08-001 @ 7' bgs	Soluble	Solid	300.0	576390
MB 490-576390/1-A	Method Blank	Soluble	Solid	300.0	576390
LCS 490-576390/2-A	Lab Control Sample	Soluble	Solid	300.0	576390
LCSD 490-576390/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	576390
490-168662-82 MS	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	300.0	576390
490-168662-82 MSD	SRP-SB-09-001 @ 8' bgs	Soluble	Solid	300.0	576390

Analysis Batch: 576767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-168662-44	SRP-SB-01-001 @ 4' bgs	Soluble	Solid	300.0	576388
490-168662-45	SRP-SB-01-001 @ 7' bgs	Soluble	Solid	300.0	576388
MB 490-576767/3	Method Blank	Total/NA	Solid	300.0	
LCS 490-576767/4	Lab Control Sample	Total/NA	Solid	300.0	
LCSD 490-576767/5	Lab Control Sample Dup	Total/NA	Solid	300.0	

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Date Collected: 02/14/19 09:27

Date Received: 02/16/19 10:25

Lab Sample ID: 490-168662-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0177 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 09:47	JHS	TAL NSH

Client Sample ID: NRP-BG-001 @ 2' bgs

Date Collected: 02/14/19 09:27

Date Received: 02/16/19 10:25

Lab Sample ID: 490-168662-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0444 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 10:31	JHS	TAL NSH

Client Sample ID: NRP-BG-001 @ 4' bgs

Date Collected: 02/14/19 09:30

Date Received: 02/16/19 10:25

Lab Sample ID: 490-168662-3

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			5.03 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 19:20	SW1	TAL NSH
Total/NA	Prep	5030B			5.49 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 00:27	AK1	TAL NSH
Total/NA	Prep	3550C			25.14 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 04:35	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0318 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 10:46	JHS	TAL NSH

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

Date Collected: 02/14/19 09:25

Date Received: 02/16/19 10:25

Lab Sample ID: 490-168662-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9643 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 11:01	JHS	TAL NSH

Client Sample ID: SRP-BG-001@ 2' bgs

Date Collected: 02/14/19 09:26

Date Received: 02/16/19 10:25

Lab Sample ID: 490-168662-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9805 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 11:16	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-BG-001@ 4' bgs

Lab Sample ID: 490-168662-6

Date Collected: 02/14/19 09:29

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0267 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 11:30	JHS	TAL NSH

Client Sample ID: SRP-BG-001@ 8' bgs

Lab Sample ID: 490-168662-7

Date Collected: 02/14/19 09:35

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9721 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 11:45	JHS	TAL NSH

Client Sample ID: SRP-BG-001@ 10' bgs

Lab Sample ID: 490-168662-8

Date Collected: 02/14/19 09:44

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.89 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 19:48	SW1	TAL NSH
Total/NA	Prep	5030B			5.00 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 01:01	AK1	TAL NSH
Total/NA	Prep	3550C			25.44 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 05:26	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9798 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 12:00	JHS	TAL NSH

Client Sample ID: NRP-SB-01-001 @ 0-1' bgs

Lab Sample ID: 490-168662-9

Date Collected: 02/14/19 10:18

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9576 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 12:15	JHS	TAL NSH

Client Sample ID: NRP-SB-01-001 @ 1.5' bgs

Lab Sample ID: 490-168662-10

Date Collected: 02/14/19 10:21

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 20:18	SW1	TAL NSH
Total/NA	Prep	5030B			5.22 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 01:35	AK1	TAL NSH
Total/NA	Prep	3550C			25.62 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-01-001 @ 1.5' bgs

Lab Sample ID: 490-168662-10

Date Collected: 02/14/19 10:21

Matrix: Solid

Date Received: 02/16/19 10:25

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			576719	02/22/19 05:42	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0117 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 12:30	JHS	TAL NSH

Client Sample ID: NRP-SB-02-001 @ 0-1' bgs

Lab Sample ID: 490-168662-11

Date Collected: 02/14/19 10:30

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0407 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 13:14	JHS	TAL NSH

Client Sample ID: NRP-SB-02-001 @ 2' bgs

Lab Sample ID: 490-168662-12

Date Collected: 02/14/19 10:36

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.11 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 20:47	SW1	TAL NSH
Total/NA	Prep	5030B			5.40 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 02:08	AK1	TAL NSH
Total/NA	Prep	3550C			25.06 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 05:59	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0246 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 13:29	JHS	TAL NSH

Client Sample ID: NRP-SB-03-001 @ 0-1' bgs

Lab Sample ID: 490-168662-13

Date Collected: 02/14/19 10:44

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.41 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 21:16	SW1	TAL NSH
Total/NA	Prep	5030B			5.27 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 02:42	AK1	TAL NSH
Total/NA	Prep	3550C			25.29 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 06:16	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0217 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 13:44	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-04-001 @ 0-1' bgs

Lab Sample ID: 490-168662-14

Date Collected: 02/14/19 10:55

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0237 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 13:59	JHS	TAL NSH

Client Sample ID: NRP-SB-04-001 @ 1.5' bgs

Lab Sample ID: 490-168662-15

Date Collected: 02/14/19 11:02

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.11 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 21:46	SW1	TAL NSH
Total/NA	Prep	5030B			5.65 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 03:15	AK1	TAL NSH
Total/NA	Prep	3550C			25.28 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 06:32	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9979 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 14:14	JHS	TAL NSH

Client Sample ID: NRP-SB-05-001 @ 0-1' bgs

Lab Sample ID: 490-168662-16

Date Collected: 02/14/19 11:10

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0483 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 14:28	JHS	TAL NSH

Client Sample ID: NRP-SB-05-001 @ 1.75' bgs

Lab Sample ID: 490-168662-17

Date Collected: 02/14/19 11:15

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 22:15	SW1	TAL NSH
Total/NA	Prep	5030B			5.41 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 03:49	AK1	TAL NSH
Total/NA	Prep	3550C			25.30 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 06:49	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0057 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 14:43	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-18

Date Collected: 02/14/19 11:25

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9643 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 14:58	JHS	TAL NSH

Client Sample ID: NRP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-19

Date Collected: 02/14/19 11:29

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9829 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		1			576270	02/19/19 15:13	JHS	TAL NSH

Client Sample ID: NRP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-20

Date Collected: 02/14/19 11:36

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0269 g	30 mL	576127	02/19/19 07:12	JHS	TAL NSH
Soluble	Analysis	300.0		2			576401	02/20/19 09:12	JHS	TAL NSH

Client Sample ID: NRP-SB-06-001 @ 5.75' bgs

Lab Sample ID: 490-168662-21

Date Collected: 02/14/19 12:08

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.15 g	5.0 mL	576258	02/19/19 12:51	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 22:46	SW1	TAL NSH
Total/NA	Prep	5030B			5.39 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 04:23	AK1	TAL NSH
Total/NA	Prep	3550C			25.58 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 07:06	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0061 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		2			576401	02/20/19 09:27	JHS	TAL NSH

Client Sample ID: NRP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-22

Date Collected: 02/14/19 12:21

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9979 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 18:10	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-23

Date Collected: 02/14/19 12:24

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0376 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 18:25	JHS	TAL NSH

Client Sample ID: NRP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-24

Date Collected: 02/14/19 12:30

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.39 g	5.0 mL	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 23:17	SW1	TAL NSH
Total/NA	Prep	5030B			5.42 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 04:56	AK1	TAL NSH
Total/NA	Prep	3550C			25.35 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 07:56	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9897 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		2			576401	02/20/19 09:57	JHS	TAL NSH

Client Sample ID: NRP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-25

Date Collected: 02/14/19 12:45

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0145 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 18:54	JHS	TAL NSH

Client Sample ID: NRP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-26

Date Collected: 02/14/19 12:51

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0483 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 19:09	JHS	TAL NSH

Client Sample ID: NRP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-27

Date Collected: 02/14/19 12:58

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9812 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 19:24	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-08-001 @ 8' bgs

Lab Sample ID: 490-168662-28

Date Collected: 02/14/19 13:22

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9566 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 19:39	JHS	TAL NSH

Client Sample ID: NRP-SB-08-001 @ 9' bgs

Lab Sample ID: 490-168662-29

Date Collected: 02/14/19 13:33

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/20/19 23:48	SW1	TAL NSH
Total/NA	Prep	5030B			5.85 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 05:30	AK1	TAL NSH
Total/NA	Prep	3550C			25.26 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 08:13	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0408 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 19:53	JHS	TAL NSH

Client Sample ID: NRP-SB-09-001 @ 0-1' bgs

Lab Sample ID: 490-168662-30

Date Collected: 02/14/19 13:46

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0424 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 20:08	JHS	TAL NSH

Client Sample ID: NRP-SB-09-001 @ 2' bgs

Lab Sample ID: 490-168662-31

Date Collected: 02/14/19 13:49

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9850 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 20:53	JHS	TAL NSH

Client Sample ID: NRP-SB-09-001 @ 3.5' bgs

Lab Sample ID: 490-168662-32

Date Collected: 02/14/19 13:55

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5.0 mL	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 00:18	SW1	TAL NSH
Total/NA	Prep	5030B			5.17 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 06:03	AK1	TAL NSH
Total/NA	Prep	3550C			25.62 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-09-001 @ 3.5' bgs

Lab Sample ID: 490-168662-32

Date Collected: 02/14/19 13:55

Matrix: Solid

Date Received: 02/16/19 10:25

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			576719	02/22/19 08:30	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9851 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 21:07	JHS	TAL NSH

Client Sample ID: NRP-SB-10-001 @ 0-1' bgs

Lab Sample ID: 490-168662-33

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0382 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 21:22	JHS	TAL NSH

Client Sample ID: NRP-SB-10-001 @ 2' bgs

Lab Sample ID: 490-168662-34

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9790 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 21:37	JHS	TAL NSH

Client Sample ID: NRP-SB-10-001 @ 3' bgs

Lab Sample ID: 490-168662-35

Date Collected: 02/14/19 13:18

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 00:48	SW1	TAL NSH
Total/NA	Prep	5030B			5.80 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 06:37	AK1	TAL NSH
Total/NA	Prep	3550C			25.13 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 08:47	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0124 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 21:52	JHS	TAL NSH

Client Sample ID: NRP-SB-11-001 @ 0-1' bgs

Lab Sample ID: 490-168662-36

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9711 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 22:07	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-11-001 @ 2' bgs

Lab Sample ID: 490-168662-37

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.08 g	5.0 mL	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 01:18	SW1	TAL NSH
Total/NA	Prep	5030B			5.27 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 07:10	AK1	TAL NSH
Total/NA	Prep	3550C			25.20 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 13:23	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0359 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 22:22	JHS	TAL NSH

Client Sample ID: NRP-SB-12-001 @ 0-1' bgs

Lab Sample ID: 490-168662-38

Date Collected: 02/14/19 14:48

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9915 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		1			576278	02/19/19 22:37	JHS	TAL NSH

Client Sample ID: NRP-SB-12-001 @ 2' bgs

Lab Sample ID: 490-168662-39

Date Collected: 02/14/19 14:48

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 01:47	SW1	TAL NSH
Total/NA	Prep	5030B			5.26 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 07:44	AK1	TAL NSH
Total/NA	Prep	3550C			25.14 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 13:40	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9639 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH
Soluble	Analysis	300.0		2			576401	02/20/19 10:12	JHS	TAL NSH

Client Sample ID: NRP-SB-13-001 @ 0-1' bgs

Lab Sample ID: 490-168662-40

Date Collected: 02/14/19 15:16

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 02:16	SW1	TAL NSH
Total/NA	Prep	5030B			5.52 g	5.0 mL	576251	02/19/19 13:47	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 08:18	AK1	TAL NSH
Total/NA	Prep	3550C			25.02 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 14:32	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0395 g	30 mL	576220	02/19/19 11:10	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: NRP-SB-13-001 @ 0-1' bgs

Lab Sample ID: 490-168662-40

Date Collected: 02/14/19 15:16

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		1			576278	02/19/19 23:06	JHS	TAL NSH

Client Sample ID: SRP-SB-01-001 @ 0-1' bgs

Lab Sample ID: 490-168662-42

Date Collected: 02/14/19 14:46

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0271 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 12:10	SW1	TAL NSH

Client Sample ID: SRP-SB-01-001 @ 2' bgs

Lab Sample ID: 490-168662-43

Date Collected: 02/14/19 14:47

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9892 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 12:55	SW1	TAL NSH

Client Sample ID: SRP-SB-01-001 @ 4' bgs

Lab Sample ID: 490-168662-44

Date Collected: 02/14/19 14:51

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0276 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		5			576767	02/21/19 13:59	SW1	TAL NSH

Client Sample ID: SRP-SB-01-001 @ 7' bgs

Lab Sample ID: 490-168662-45

Date Collected: 02/14/19 15:02

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576553	02/21/19 02:44	SW1	TAL NSH
Total/NA	Prep	5030B			5.04 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 08:51	AK1	TAL NSH
Total/NA	Prep	3550C			25.45 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576489	02/21/19 05:08	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0315 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		5			576767	02/21/19 14:14	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-02-001 @ 0-1' bgs

Lab Sample ID: 490-168662-46

Date Collected: 02/14/19 14:29

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0214 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 13:39	SW1	TAL NSH

Client Sample ID: SRP-SB-02-001 @ 2' bgs

Lab Sample ID: 490-168662-47

Date Collected: 02/14/19 14:30

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0228 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 13:54	SW1	TAL NSH

Client Sample ID: SRP-SB-02-001 @ 4' bgs

Lab Sample ID: 490-168662-48

Date Collected: 02/14/19 14:33

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9810 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 14:09	SW1	TAL NSH

Client Sample ID: SRP-SB-02-001 @ 6' bgs

Lab Sample ID: 490-168662-49

Date Collected: 02/14/19 14:41

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.39 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576640	02/21/19 15:08	P1B	TAL NSH
Total/NA	Prep	5030B			5.06 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 09:25	AK1	TAL NSH
Total/NA	Prep	3550C			25.39 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 09:04	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9966 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 14:24	SW1	TAL NSH

Client Sample ID: SRP-SB-03-001 @ 0-1' bgs

Lab Sample ID: 490-168662-50

Date Collected: 02/14/19 15:07

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9863 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 14:39	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-03-001 @ 2' bgs

Lab Sample ID: 490-168662-51

Date Collected: 02/14/19 15:09

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0271 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 14:54	SW1	TAL NSH

Client Sample ID: SRP-SB-03-001 @ 4' bgs

Lab Sample ID: 490-168662-52

Date Collected: 02/14/19 15:10

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0302 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 15:38	SW1	TAL NSH

Client Sample ID: SRP-SB-03-001 @ 8' bgs

Lab Sample ID: 490-168662-53

Date Collected: 02/14/19 15:16

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9874 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 15:53	SW1	TAL NSH

Client Sample ID: SRP-SB-03-001 @ 10' bgs

Lab Sample ID: 490-168662-54

Date Collected: 02/14/19 15:19

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.49 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576640	02/21/19 15:38	P1B	TAL NSH
Total/NA	Prep	5030B			5.12 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 09:58	AK1	TAL NSH
Total/NA	Prep	3550C			25.26 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576489	02/21/19 05:42	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9833 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 16:07	SW1	TAL NSH

Client Sample ID: SRP-SB-04-001 @ 0-1' bgs

Lab Sample ID: 490-168662-55

Date Collected: 02/14/19 13:44

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0157 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 16:22	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-04-001 @ 2' bgs

Lab Sample ID: 490-168662-56

Date Collected: 02/14/19 13:45

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0115 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 16:37	SW1	TAL NSH

Client Sample ID: SRP-SB-04-001 @ 4' bgs

Lab Sample ID: 490-168662-57

Date Collected: 02/14/19 13:46

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9908 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 16:52	SW1	TAL NSH

Client Sample ID: SRP-SB-04-001 @ 8' bgs

Lab Sample ID: 490-168662-58

Date Collected: 02/14/19 13:55

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9969 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 17:06	SW1	TAL NSH

Client Sample ID: SRP-SB-04-001 @ 11' bgs

Lab Sample ID: 490-168662-59

Date Collected: 02/14/19 14:00

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.14 g	5.0 mL	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576640	02/21/19 16:08	P1B	TAL NSH
Total/NA	Prep	5030B			5.61 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 10:32	AK1	TAL NSH
Total/NA	Prep	3550C			25.10 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 09:21	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0347 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 17:21	SW1	TAL NSH

Client Sample ID: SRP-SB-05-001 @ 0-1' bgs

Lab Sample ID: 490-168662-60

Date Collected: 02/14/19 12:44

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0280 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 17:36	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-05-001 @ 2' bgs

Lab Sample ID: 490-168662-61

Date Collected: 02/14/19 12:46

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0312 g	30 mL	576388	02/20/19 07:28	JHS	TAL NSH
Soluble	Analysis	300.0		1			576430	02/20/19 17:51	SW1	TAL NSH

Client Sample ID: SRP-SB-05-001 @ 4' bgs

Lab Sample ID: 490-168662-62

Date Collected: 02/14/19 12:49

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9887 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 03:00	JHS	TAL NSH

Client Sample ID: SRP-SB-05-001 @ 8' bgs

Lab Sample ID: 490-168662-63

Date Collected: 02/14/19 13:14

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0192 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 03:50	JHS	TAL NSH

Client Sample ID: SRP-SB-05-001 @ 10' bgs

Lab Sample ID: 490-168662-64

Date Collected: 02/14/19 13:22

Matrix: Solid

Date Received: 02/16/19 10:25

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	576258	02/19/19 12:43	DHC	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	576640	02/21/19 16:36	P1B	TAL NSH
Total/NA	Prep	5030B			5.28 g	5.0 mL	576251	02/19/19 12:40	DHC	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/23/19 11:06	AK1	TAL NSH
Total/NA	Prep	3550C			25.43 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576489	02/21/19 06:16	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0431 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 00:31	SW1	TAL NSH

Client Sample ID: SRP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-65

Date Collected: 02/14/19 12:19

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0066 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 04:06	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-66

Date Collected: 02/14/19 12:20

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9721 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		2			576373	02/20/19 08:32	JHS	TAL NSH

Client Sample ID: SRP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-67

Date Collected: 02/14/19 12:22

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0216 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 04:40	JHS	TAL NSH

Client Sample ID: SRP-SB-06-001 @ 8' bgs

Lab Sample ID: 490-168662-68

Date Collected: 02/14/19 12:31

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0337 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 04:56	JHS	TAL NSH

Client Sample ID: SRP-SB-06-001 @ 10' bgs

Lab Sample ID: 490-168662-69

Date Collected: 02/14/19 12:34

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.99 g	5.0 mL	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 16:48	S1S	TAL NSH
Total/NA	Prep	5030B			5.44 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 15:37	AK1	TAL NSH
Total/NA	Prep	3550C			25.40 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 09:38	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0208 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 00:45	SW1	TAL NSH

Client Sample ID: SRP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-70

Date Collected: 02/14/19 11:53

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0167 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 05:13	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-71

Date Collected: 02/14/19 11:55

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9871 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 05:29	JHS	TAL NSH

Client Sample ID: SRP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-72

Date Collected: 02/14/19 11:57

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0094 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 05:46	JHS	TAL NSH

Client Sample ID: SRP-SB-07-001 @ 8' bgs

Lab Sample ID: 490-168662-73

Date Collected: 02/14/19 12:11

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9754 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 06:03	JHS	TAL NSH

Client Sample ID: SRP-SB-07-001 @ 9' bgs

Lab Sample ID: 490-168662-74

Date Collected: 02/14/19 12:13

Matrix: Solid

Date Received: 02/16/19 10:25

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	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 17:17	S1S	TAL NSH
Total/NA	Prep	5030B			5.14 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 16:11	AK1	TAL NSH
Total/NA	Prep	3550C			25.45 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 09:55	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0400 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 01:00	SW1	TAL NSH

Client Sample ID: SRP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-75

Date Collected: 02/14/19 11:32

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0208 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 06:52	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-76

Date Collected: 02/14/19 11:33

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9946 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 07:09	JHS	TAL NSH

Client Sample ID: SRP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-77

Date Collected: 02/14/19 11:36

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0022 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 07:25	JHS	TAL NSH

Client Sample ID: SRP-SB-08-001 @ 8' bgs

Lab Sample ID: 490-168662-78

Date Collected: 02/14/19 11:50

Matrix: Solid

Date Received: 02/16/19 10:25

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	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 17:47	S1S	TAL NSH
Total/NA	Prep	5030B			5.68 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 16:45	AK1	TAL NSH
Total/NA	Prep	3550C			25.50 g	1 mL	576297	02/19/19 14:18	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/22/19 10:11	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9773 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 01:15	SW1	TAL NSH

Client Sample ID: SRP-SB-09-001 @ 0-1' bgs

Lab Sample ID: 490-168662-79

Date Collected: 02/14/19 11:09

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0302 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 07:42	JHS	TAL NSH

Client Sample ID: SRP-SB-09-001 @ 2' bgs

Lab Sample ID: 490-168662-80

Date Collected: 02/14/19 11:11

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9589 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 07:59	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: SRP-SB-09-001 @ 4' bgs

Lab Sample ID: 490-168662-81

Date Collected: 02/14/19 11:15

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0153 g	30 mL	576340	02/19/19 16:28	SOO	TAL NSH
Soluble	Analysis	300.0		1			576373	02/20/19 08:15	JHS	TAL NSH

Client Sample ID: SRP-SB-09-001 @ 8' bgs

Lab Sample ID: 490-168662-82

Date Collected: 02/14/19 11:28

Matrix: Solid

Date Received: 02/16/19 10:25

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	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 18:16	S1S	TAL NSH
Total/NA	Prep	5030B			5.49 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 17:18	AK1	TAL NSH
Total/NA	Prep	3550C			25.33 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 14:49	AK1	TAL NSH
Soluble	Leach	DI Leach			2.9864 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 19:49	SW1	TAL NSH

Client Sample ID: HDP-SB-06-001 @ 0-1' bgs

Lab Sample ID: 490-168662-83

Date Collected: 02/14/19 14:09

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9949 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 20:33	SW1	TAL NSH

Client Sample ID: HDP-SB-06-001 @ 2' bgs

Lab Sample ID: 490-168662-84

Date Collected: 02/14/19 14:11

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0217 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 20:48	SW1	TAL NSH

Client Sample ID: HDP-SB-06-001 @ 4' bgs

Lab Sample ID: 490-168662-85

Date Collected: 02/14/19 14:12

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9645 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 21:03	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-06-001 @ 8' bgs

Lab Sample ID: 490-168662-86

Date Collected: 02/14/19 14:20

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0295 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 21:18	SW1	TAL NSH

Client Sample ID: HDP-SB-06-001 @ 11' bgs

Lab Sample ID: 490-168662-87

Date Collected: 02/14/19 14:23

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.22 g	5.0 mL	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 18:46	S1S	TAL NSH
Total/NA	Prep	5030B			5.93 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 17:52	AK1	TAL NSH
Total/NA	Prep	3550C			25.12 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 15:06	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0378 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 21:33	SW1	TAL NSH

Client Sample ID: HDP-SB-07-001 @ 0-1' bgs

Lab Sample ID: 490-168662-88

Date Collected: 02/14/19 09:56

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0457 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 21:47	SW1	TAL NSH

Client Sample ID: HDP-SB-07-001 @ 2' bgs

Lab Sample ID: 490-168662-89

Date Collected: 02/14/19 10:00

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0041 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 22:02	SW1	TAL NSH

Client Sample ID: HDP-SB-07-001 @ 4' bgs

Lab Sample ID: 490-168662-90

Date Collected: 02/14/19 10:01

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0454 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 22:17	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-07-001 @ 8' bgs

Lab Sample ID: 490-168662-91

Date Collected: 02/14/19 10:08

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0147 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 22:32	SW1	TAL NSH

Client Sample ID: HDP-SB-07-001 @ 10' bgs

Lab Sample ID: 490-168662-92

Date Collected: 02/14/19 10:12

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.61 g	5.0 mL	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 19:16	S1S	TAL NSH
Total/NA	Prep	5030B			5.69 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 18:26	AK1	TAL NSH
Total/NA	Prep	3550C			25.20 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 15:23	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0202 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 23:16	SW1	TAL NSH

Client Sample ID: HDP-SB-08-001 @ 0-1' bgs

Lab Sample ID: 490-168662-93

Date Collected: 02/14/19 15:23

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9634 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 23:31	SW1	TAL NSH

Client Sample ID: HDP-SB-08-001 @ 2' bgs

Lab Sample ID: 490-168662-94

Date Collected: 02/14/19 15:25

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0328 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/20/19 23:46	SW1	TAL NSH

Client Sample ID: HDP-SB-08-001 @ 4' bgs

Lab Sample ID: 490-168662-95

Date Collected: 02/14/19 15:27

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0095 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 00:01	SW1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

Client Sample ID: HDP-SB-08-001 @ 7' bgs

Lab Sample ID: 490-168662-96

Date Collected: 02/14/19 15:33

Matrix: Solid

Date Received: 02/16/19 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.41 g	5.0 mL	576019	02/18/19 13:24	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 g	575981	02/18/19 19:45	S1S	TAL NSH
Total/NA	Prep	5030B			5.13 g	5.0 mL	576017	02/18/19 13:23	JLP	TAL NSH
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	576634	02/21/19 18:59	AK1	TAL NSH
Total/NA	Prep	3550C			25.16 g	1 mL	576332	02/19/19 16:17	AMD	TAL NSH
Total/NA	Analysis	8015B		1			576719	02/21/19 15:40	AK1	TAL NSH
Soluble	Leach	DI Leach			3.0432 g	30 mL	576390	02/20/19 07:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			576448	02/21/19 00:16	SW1	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: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Sport Environmental Services LLC
Project/Site: XTO-Seven Rivers Queen

TestAmerica Job ID: 490-168662-1

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	06-30-19 *
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	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
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	12-31-19
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	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-19
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	12-30-19
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	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 Nashville

COOLER RECEIPT FORM



490-168662 Chain of Custody

Cooler Received/Opened On 2/16/2019 @ 1025

Time Samples Removed From Cooler 1628 Time Samples Placed In Storage 1743 (2 Hour Window)

1. Tracking # 6400 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960357 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 2-2 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 (initial) 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 # ADT

I certify that I unloaded the cooler and answered questions 7-14 (initial) ADT

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 (initial) ADT

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 (initial) ADT

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

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

COOLER RECEIPT FORM

Cooler Received/Opened On 2/16/2019 @ 1025

Time Samples Removed From Cooler 1628 Time Samples Placed In Storage 1743 (2 Hour Window)

1. Tracking # 6342 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 17960357 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 2.4 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? 1 Front YES...NO...NA
If yes, how many and where: _____

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

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

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

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 (initial) ADH

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 (initial) ADH

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 (initial) ADH

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

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

COOLER RECEIPT FORM

Loc: 490
168662
#1
A

Cooler Received/Opened On 2/16/2019 @ 1025

Time Samples Removed From Cooler 1625 Time Samples Placed In Storage 1743 (2 Hour Window)

1. Tracking # 2234 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960357 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 16 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 (initial) 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 (initial) ADH

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 (initial) ADH

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 (initial) ADH

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

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

Chain of Custody Record

Midland
#264

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Debi Moore</u>		Lab PM: <u>Gambill, Jennifer</u>		Carrier Tracking Note(s):		COC No: <u>490-96301-26265.1</u>	
Client Contact: <u>Debi Sport Moore</u>		Phone: <u>(432) 683-1100</u>		E-Mail: <u>jennifer.gambill@testamericainc.com</u>				Page: <u>Page 1 of 15</u>	
Company: <u>Sport Environmental Services LLC</u>								Job #:	
Address: <u>502 N Big Spring St</u>		Due Date Requested:		Analysis Requested				Preservation Codes:	
City: <u>Midland</u>		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: <u>TX, 79701</u>		PO #: <u>Purchase Order not required</u>						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: <u>432-683-1100(Tel)</u>		WO #:							
Email: <u>debi@sportenv.com</u>		Project #:							
Project Name: <u>XTO - Seven Rivers Queen</u>		SSOW#:							
Site:									
Sample Identification		Sample Date	Sample Time	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)	Special Instructions/Note:	
NRP-BG-001 @ 0-1' bgs	2-14-19	0927	G	Solid		X		Total Number of Containers	
NRP-BG-001 @ 2' bgs	2-14-19	0927	G	Solid		X			
NRP-BG-001 @ 4' bgs	2-14-19	0930	G	Solid		X			
NRP-BG-001 @ 8' bgs	<u>resistance</u>			Solid		X		Loc: 490	
NRP-BG-001 @ 12' bgs	<u>resistance</u>			Solid		X		168662	
SRP-BG-001 @ 0-1' bgs	2-14-19	0925	G	Solid		X			
SRP-BG-001 @ 2' bgs	2-14-19	0926	G	Solid		X			
SRP-BG-001 @ 4' bgs	2-14-19	0929	G	Solid		X			
SRP-BG-001 @ 8' bgs	2-14-19	0935	G	Solid		X			
SRP-BG-001 @ 12' bgs	2-14-19	0944	G	Solid		X			
NRP-SB-01-001 @ 0-1' bgs	2-14-19	1018	G	Solid		X			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements							
Empty Kit Relinquished by:		Time:							
Relinquished by: <u>Debi Moore</u>		Date: <u>2-15-19</u>		Company: <u>Sport</u>		Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date: <u>2-15-19</u>		Company: <u>TA</u>		Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-16-19 1023</u>	
Relinquished by: <u>Debi Moore</u>		Date: <u>2-15-19</u>		Company: <u>TA</u>		Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-16-19 1023</u>	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <u>2.2, 2.4, 1.6</u>			

Midland #264

Chain of Custody Record

Client Information		Sampler: <u>Debi Moore</u>		Lab PM: <u>Gambill, Jennifer</u>		Carrier Tracking No(s):		COC No: <u>490-96301-26265.2</u>	
Client Contact: <u>Debi Sport Moore</u>		Phone: <u>(432) 683-1100</u>		E-Mail: <u>jennifer.gambill@testamericainc.com</u>				Page: <u>Page 2 of 15</u>	
Company: <u>Sport Environmental Services LLC</u>								Job #:	
Address: <u>502 N Big Spring St</u>		Due Date Requested:		Analysis Requested					
City: <u>Midland</u>		TAT Requested (days):							
State, Zip: <u>TX, 79701</u>									
Phone: <u>432-683-1100(Tel)</u>		PO #:							
Email: <u>debi@sportenv.com</u>		Purchase Order not required							
Project Name: <u>XTO - Seven Rivers Queen</u>		WO #:							
Site: <u>49014499</u>		Project #:							
		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, etc.)	Field Filtered Sample (Yes or No)	Reagent MS/MSD (Yes or No)	8015B_DRO, 8015B_GRO, 8260B	Special Instructions/Note:
NRP-SB-01-001 @ 2 bgs - 1.5' bgs	2-14-19	1021	G	Solid		X	X		
NRP-SB-01-001 @ 4 bgs	2-14-19		G	Solid		X	X		
NRP-SB-01-001 @ 8 bgs	2-14-19		G	Solid		X	X		
NRP-SB-01-001 @ 12 bgs	2-14-19		G	Solid		X	X		
NRP-SB-02-001 @ 0-1' bgs	2-14-19	1030	G	Solid		X	X		
NRP-SB-02-001 @ 2 bgs	2-14-19	1036	G	Solid		X	X		
NRP-SB-02-001 @ 4 bgs	2-14-19		G	Solid		X	X		
NRP-SB-02-001 @ 8 bgs	2-14-19		G	Solid		X	X		
NRP-SB-02-001 @ 12 bgs	2-14-19		G	Solid		X	X		
NRP-SB-03-001 @ 0-1' bgs	2-14-19	1044	G	Solid		X	X		
NRP-SB-03-001 @ 2 bgs	2-14-19		G	Solid		X	X		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1546</u>		Company: <u>Sport</u>		Received by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u> Company: <u>TX</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Received by: <u>Debi Moore</u>		Date/Time: <u>2-16-19 1025</u> Company: <u>TX</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-16-19 1025</u>		Company: <u>Sport</u>		Received by: <u>Debi Moore</u>		Date/Time: <u>2-22-19 11:00</u> Company: <u>TX</u>	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <u>2-22-19 11:00</u>		Ver: 08/04/2016	

Chain of Custody Record

Midland
#264

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Dela Moore</u>		Lab PM: <u>Gambill, Jennifer</u>		Carrier Tracking No(s):		COC No: <u>490-96301-26265.3</u>	
Client Contact: <u>Debi Sport Moore</u>		Phone: <u>(432) 683-1100</u>		E-Mail: <u>jennifer.gambill@testamericainc.com</u>				Page: <u>Page 3 of 15</u>	
Company: <u>Sport Environmental Services LLC</u>								Job #:	
Address: <u>502 N Big Spring St</u>		Due Date Requested:		Analysis Requested				Preservation Codes:	
City: <u>Midland</u>		TAT Requested (days):						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Phone: <u>432-683-1100(Tel)</u>		PO #: <u>Purchase Order not required</u>							
Email: <u>debi@sportenv.com</u>		WO #: <u></u>							
Project Name: <u>XTO - Seven Rivers Queen</u>		Project #: <u>49014499</u>							
Site: <u></u>		SSOW#: <u></u>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=grass, B=biomass, etc.)	Field Filtered Sample (Yes or No)	Reform MS/MSD (Yes or No)	8015B_PFO, 8015B_GRO, 8260B	Special Instructions/Note:
NRP-SB-03-001 @ 4 bgs					Solid				
NRP-SB-03-004 @ 8 bgs					Solid				
NRP-SB-03-001 @ 12 bgs					Solid				
NRP-SB-04-001 @ 0.1 bgs		2-14-19	1055	G	Solid	X			Loc: 490
NRP-SB-04-001 @ 2 bgs		2-14-19	1102	G	Solid	X			168662
NRP-SB-04-004 @ 4 bgs					Solid				#3
NRP-SB-04-004 @ 8 bgs					Solid				A
NRP-SB-04-001 @ 12 bgs					Solid				
NRP-SB-05-001 @ 0.1 bgs		2-14-19	1110	G	Solid	X			
NRP-SB-05-001 @ 2 bgs		2-14-19	1115	G	Solid	X			
NRP-SB-05-001 @ 4 bgs					Solid				
Possible Hazard Identification									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:					
Relinquished by: <u>Dela Moore</u>		Date/Time: <u>2-15-19 1546</u>	Company: <u>Sport</u>	Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-15-19 1550</u>	Company: <u>TA</u>		
Relinquished by: <u>Dela Moore</u>		Date/Time: <u>2-15-19 1550</u>	Company: <u>TA</u>	Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-16-19 1025</u>	Company: <u>TA-NAS</u>		
Relinquished by: <u>Dela Moore</u>		Date/Time: <u>2-15-19 1550</u>	Company: <u>TA</u>	Received by: <u>Jennifer Gambill</u>		Date/Time: <u>2-16-19 1025</u>	Company: <u>TA-NAS</u>		
Custody Seals Intact: <u>Yes</u> <u>No</u>		Custody Seal No.: <u>2-2-2-4, 1-6</u>		Cooler Temperature(s) °C and Other Remarks: <u>2-2-2-4, 1-6</u>				Ver: 08/04/2016	

Client Information Client Contact: <u>Debi Moore</u> Debi Sport Moore Company: <u>Sport Environmental Services LLC</u>		Lab PM: <u>Gambill, Jennifer</u> E-Mail: <u>Jennifer.gambill@testamericainc.com</u>		Carrier Tracking No(s): 490-96301-26265.4 Page: <u>4 of 15</u> Job #:		COC No: 490-96301-26265.4 Page: <u>4 of 15</u> Job #:	
Analysis Requested				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Due Date Requested:		TAT Requested (days):		PO #: Purchase Order not required WO #: Project #: 49014499 SSOW#:		Field Filtered Sample (Yes or No)	
Sample Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastefoil, BT= Tissue, A=Air)	
NRP-SB-05-001 @ 8' bgs - resistance		2-14-19		1125		Solid	
NRP-SB-05-001 @ 12 bgs - resistance		2-14-19		1129		Solid	
NRP-SB-06-001 @ 0-1' bgs		2-14-19		1136		Solid	
NRP-SB-06-001 @ 2' bgs		2-14-19		1208		Solid	
NRP-SB-06-001 @ 4' bgs		2-14-19		1221		Solid	
NRP-SB-06-001 @ 8' bgs - 5.75' bgs		2-14-19		1224		Solid	
NRP-SB-06-001 @ 12' bgs - resistance		2-14-19		1230		Solid	
NRP-SB-07-001 @ 0-1' bgs		2-14-19		1230		Solid	
NRP-SB-07-001 @ 2' bgs		2-14-19		1230		Solid	
NRP-SB-07-001 @ 4' bgs		2-14-19		1230		Solid	
NRP-SB-07-001 @ 6' bgs - resistance		2-14-19		1230		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: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1546</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</u>		Company: <u>Sport</u>		Date/Time: <u>2-15-19 1550</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: <u>2-15-19 1550</</u>					

THE LATER IN ENVIRONMENT. TESTING

Ver: 08/04/2016

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

Chain of Custody Record

Midland
#264

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab Pmt: Gambill, Jennifer		Carrier Tracking No(s):	
Client Contact: Debi Moore		Phone: (432) 683-1100		COC No: 490-96301-26285.6	
Company: Sport Environmental Services LLC		E-Mail: jennifer.gambill@testamerica.com		Page: 6 of 15	
Address: 502 N Big Spring St		Due Date Requested:		Job #:	
City: Midland		TAT Requested (days):		Preservation Codes:	
State, Zip: TX, 79701		PO #: Purchase Order not required		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - other (specify)	
Phone: 432-683-1100(Tel)		WO #:		Other:	
Email: debi@sporenv.com		Project #: 49014499		Special Instructions/Note:	
Project Name: XT0-Seven Rivers Green		SSOW#:		Total Number of containers	
Site:		Field Filtered Sample (Yes or No)		N	
Sample Identification		Perform MS/MSD (Yes or No)		N	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Date		Sample Time		Matrix (W=water, S=solid, O=waste/oli, BT=tissue, A=air)	
Sample Date		Sample Time		Preservation Code	
NRP-SB-10-001 @ 0-1' bgs		2-14-19 1318		Solid	
NRP-SB-10-001 @ 2' bgs		2-14-19 1318		Solid	
NRP-SB-10-001 @ 4' bgs 3' bgs		2-14-19 1318		Solid	
NRP-SB-10-001 @ 6' bgs		resistance		Solid	
NRP-SB-10-001 @ 12' bgs		resistance		Solid	
NRP-SB-11-001 @ 0-1' bgs		2-14-19 1433		Solid	
NRP-SB-11-001 @ 2' bgs		2-14-19 1433		Solid	
NRP-SB-11-001 @ 4' bgs		resistance		Solid	
NRP-SB-11-001 @ 6' bgs		resistance		Solid	
NRP-SB-11-001 @ 12' bgs		resistance		Solid	
NRP-SB-12-001 @ 0-1' bgs		2-14-19 1448		Solid	
Possible Hazard Identification		Poison B		Radiological	
Non-Hazard		Flammable		Skin Irritant	
Deliverable Requested: I, II, III, IV, Other (specify)		Unknown		Empty Kit Relinquished by:	
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: Debi Moore		Date/Time: 2-15-19 1546		Company: Sport	
Relinquished by: Debi Moore		Date/Time: 2-15-19 1550		Company: Sport	
Relinquished by:		Date/Time:		Company:	
Custody Seal No.:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.2, 2.4, 1.6	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Ver: 08/04/2016	

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

Chain of Custody Record

Midland
#264

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Debi Moore</u>		Lab PWT: Gambill, Jennifer		Carrier Tracking No(s):											
Client Contact: Debi Sport Moore		Phone: (432) 683-1100		E-Mail: jennifer.gambill@testamericainc.com		COC No: 490-96301-26285.7											
Company: Sport Environmental Services LLC		Address: 502 N Big Spring St		City: Midland		Page: Page 7 of 15											
State, Zip: TX, 79701		Phone: 432-683-1100(Tel)		Purchase Order not required		Job #:											
Email: debi@sportenv.com		Project #: 49014499		WO #:		Preservation Codes:											
Site: <u>XTO - Seven Rivers - Green</u>		SSOW#:				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ioe J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2SO4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, ST=issue, Asst)		Field Filtered Sample (Yes or No)		Return MSMSD (Yes or No)		Total Number of Containers		Special Instructions/Note:	
NRP-SB-12-001 @ 2 'bgs		2-14-19		1448		G		Solid		X		X		1		Loc: 490 168662 #7 A	
NRP-SB-12-001 @ 4 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-12-001 @ 8 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-12-001 @ 12 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-13-001 @ 0-1 'bgs		2-14-19		1516		G		Solid		X		X		1			
NRP-SB-13-001 @ 2 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-13-001 @ 4 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-13-001 @ 8 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-13-001 @ 12 'bgs		2-14-19		1531		G		Solid		X		X		1			
NRP-SB-14-001 @ 0-1 'bgs		resistance		resistance		resistance		Solid									
NRP-SB-14-001 @ 2 'bgs		resistance		resistance		resistance		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)		Empty Kit Relinquished by:		Date/Time: 2-15-19 1546		Company: Sport		Date/Time: 2-15-19 1550		Company: TA-NAS		Date/Time: 2-15-19 1550		Company: TA-NAS		Date/Time: 2-15-19 1550	
Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>		Relinquished by: <u>Debi Moore</u>	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Midland
#264

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Debi Moore		Lab PM: Gambill, Jennifer		Carrier Tracking No(s):		COC No: 490-96301-26265.8	
Client Contact: Debi Sport Moore		Phone: (432) 693-1100		E-Mail: jennifer.gambill@testamerica.com				Page: Page 8 of 15	
Company: Sport Environmental Services LLC								Job #:	
Address: 502 N Big Spring St		Due Date Requested:		Analysis Requested					
City: Midland		TAT Requested (days):							
State, Zip: TX, 79701		PO #:							
Phone: 432-683-1100(Tel)		Purchase Order not required							
Email: debi@sportenv.com		WO #:							
Project Name: XTO- Seven Rivers Queen		Project #:							
Site:		SSOW#:							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, ET=ETISSE, A=AM)	Field Filtered Sample (Yes or No)	Perforated MS/MSD (Yes or No)	8015B, PRO, 8015B, GRO, 8260B	chloride	Total Number of Containers	Special Instructions/Note:
NRP-SB-14-001 @ 4 'bgs				Solid						
NRP-SB-14-004 @ 8 'bgs				Solid						
NRP-SB-14-004 @ 12 'bgs				Solid						
SRP-SB-01-001 @ 0-1'bgs	2-14-19	1446	G	Solid				X	1	Loc: 490
SRP-SB-01-001 @ 2 'bgs	2-14-19	1447	G	Solid				X	1	168662
SRP-SB-01-001 @ 4 'bgs	2-14-19	1451	G	Solid				X	1	#8
SRP-SB-01-001 @ 8 'bgs 7'bgs	2-14-19	1502	G	Solid				X	1	A
SRP-SB-01-004 @ 12 'bgs				Solid						
SRP-SB-02-001 @ 0-1'bgs	2-14-19	1429	G	Solid				X	1	
SRP-SB-02-001 @ 2 'bgs	2-14-19	1430	G	Solid				X	1	
SRP-SB-02-001 @ 4 'bgs	2-14-19	1433	G	Solid				X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

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:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Debi Moore		Date/Time: 2-15-19 1546		Company: Sport		Date/Time: 2-15-19 1550 Company: TA	
Relinquished by: Debi Moore		Date/Time: 2-15-19 1550		Company: Sport		Date/Time: 2-15-19 1025 Company: TA	
Relinquished by: Debi Moore		Date/Time:		Company:		Date/Time:	

Custody Seals Intact: ☐ Yes ☐ No ☐ No
 Cooler Temperature(s) °C and Other Remarks: **2.2, 2.4, 1.6**

Ver: 08/04/2016

Chain of Custody Record

Midland
#264

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Debi Moore Phone: (432) 633-1100 E-Mail: jennifer.gambill@testamericainc.com Company: Sport Environmental Services LLC		Lab PIV: Gambill, Jennifer E-Mail: jennifer.gambill@testamericainc.com		Carrier Tracking No(s): COC No: 490-96301-26265.9 Page: Page 9 of 15 Job #:	
Address: 502 N Big Spring St City: Midland State, Zip: TX, 79701 Phone: 432-683-1100(Tel) Email: debi@sportenv.com Project Name: XTO - Seven Rivers - Queen Site:		Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project # 49014499 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification SRP-SB-02-001 @ 2 'bgs 4 'bgs SRP-SB-02-001 @ 12 'bgs SRP-SB-03-001 @ 0-1 'bgs SRP-SB-03-001 @ 2 'bgs SRP-SB-03-001 @ 4 'bgs SRP-SB-03-001 @ 8 'bgs SRP-SB-03-001 @ 12 'bgs 10 'bgs SRP-SB-04-001 @ 0-1 'bgs SRP-SB-04-001 @ 2 'bgs SRP-SB-04-001 @ 4 'bgs SRP-SB-04-001 @ 8 'bgs		Sample Date 2-14-19 2-14-19 2-14-19 2-14-19 2-14-19 2-14-19 2-14-19 2-14-19 2-14-19		Sample Time 1441 1507 1509 1510 1516 1519 1344 1345 1346 1355	
Sample Type (C=Comp, G=grab) G G G G G G G G G		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=air) Solid Solid Solid Solid Solid Solid Solid Solid Solid		Field Filled Sample (Yes or No) X X X X X X X X X	
Perform MS/MSD (Yes or No) N N N N N N N N N		Preservation Code 6 6 6 6 6 6 6 6 6		Special Instructions/Note: 8015B_PRO, 8015B_GRO, 8280B Chloride Loc: A90 1689662 #9 A	
Total Number of Containers 1 1 1 1 1 1 1 1 1		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:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:	
Relinquished by: Tara S. Moore Relinquished by: Debi Moore Relinquished by: Debi Moore		Date/Time: 2-15-19 1546 Date/Time: 2-15-19 1550 Date/Time: 2-15-19 1550		Company: Sport Company: Sport Company: Sport	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.2, 2.4 f. 6	

Chain of Custody Record

Midland
#264

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Debi Sport Moore Company: Sport Environmental Services LLC Address: 502 N Big Spring St City: Midland State: TX Zip: 79701 Phone: 432-683-1100(Tel) Email: debi@sporenv.com Project Name: Site:		Lab PM: Gambill, Jennifer E-Mail: jennifer.gambill@testamericainc.com Sampler: Debi Moore Phone: (432) 683-1100 Carrier Tracking Note:		COC No: 490-96301-26265.10 Page: Page 10 of 15 Job #:																																																																																																																																					
Analysis Requested Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 49014499 SSOW#:																																																																																																																																									
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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, I=In-Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO, 8015B_GRO, 8280B	chloride	Preservation Code:	Special Instructions/Note:																																																																																																																															
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Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: 2-2-2-4-1-6																																																																																																																																									

Chain of Custody Record

Midland
#264

Client Information		Sampler: <u>Debi Moore</u>		Lab PM: <u>Gambill, Jennifer</u>		Carrier Tracking No(s):	
Client Contact: Debi Sport Moore		Phone: <u>(432) 683-1100</u>		E-Mail: <u>jennifer.gambill@testamericainc.com</u>		COC No: 490-96301-26265.11	
Company: Sport Environmental Services LLC		Address: 502 N Big Spring St		City: Midland		Page: Page 11 of 15	
State, Zip: TX, 79701		Phone: 432-683-1100 (Tel)		PO #: Purchase Order not required		Job #:	
Email: <u>debi@sporenv.com</u>		Project #: 49014499		WO #:			
Project Name: <u>XTO - Seven Rivers - Queen</u>		SSOW#:					
Site:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
SRP-SB-07-001 @ 0-1' bgs		2-14-19		1153		G Solid	
SRP-SB-07-001 @ 2' bgs		2-14-19		1155		G Solid	
SRP-SB-07-001 @ 4' bgs		2-14-19		1157		G Solid	
SRP-SB-07-001 @ 8' bgs		2-14-19		1211		G Solid	
SRP-SB-07-001 @ 12' bgs		2-14-19		1213		G Solid	
SRP-SB-08-001 @ 0-1' bgs		2-14-19		1132		G Solid	
SRP-SB-08-001 @ 2' bgs		2-14-19		1133		G Solid	
SRP-SB-08-001 @ 4' bgs		2-14-19		1136		G Solid	
SRP-SB-08-001 @ 8' bgs		2-14-19		1150		G Solid	
SRP-SB-08-001 @ 12' bgs		2-14-19		1109		G Solid	
SRP-SB-09-001 @ 0-1' bgs		2-14-19		1109		G Solid	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>Debi Moore</u>		Date/Time: 2-15-19 1546		Company: <u>SPORT</u>		Received by: <u>Debi Moore</u> Date/Time: 2-15-19 1550 Company: <u>TA</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time: 2-15-19 1550		Company: <u>TA</u>		Received by: <u>Debi Moore</u> Date/Time: 2-15-19 1025 Company: <u>TA</u>	
Relinquished by: <u>Debi Moore</u>		Date/Time:		Company:		Received by: <u>Debi Moore</u> Date/Time: 2-15-19 1025 Company: <u>TA</u>	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <u>2.2-12.4/1.0</u>	

Client Information Client Contact: Debi Moore Company: Sport Environmental Services LLC Address: 502 N Big Spring St City: Midland State, Zip: TX, 79701 Phone: 432-683-1100(Tel) Email: debi@sportenv.com Project Name: XTO - Seven River Queen Site:		Sampler: Debi Moore Lab PM: Gambili, Jennifer Phone: (432) 683-1100 E-Mail: jennifer.gambili@testamericainc.com		Carrier Tracking No(s): COC No: 490-96301-26265.13 Page: Page 13 of 15 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested			
Sample Identification HDP-SB-02-001 @ 4 'bgs HDP-SB-02-001 @ 8 'bgs HDP-SB-02-001 @ 12 'bgs HDP-SB-03-001 @ 0-1'bgs HDP-SB-03-001 @ 2 'bgs HDP-SB-03-001 @ 4 'bgs HDP-SB-03-001 @ 8 'bgs HDP-SB-03-001 @ 12 'bgs HDP-SB-04-001 @ 0-1'bgs HDP-SB-04-001 @ 2 'bgs HDP-SB-04-001 @ 4 'bgs		Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No) 8015B_DRO, 8015B_GRO, 8260B	Total Number of Containers Special Instructions/Note: LOC: 490 168662 #13 A	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
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			
Empty Kit Relinquished by:		Special Instructions/QC Requirements:			
Relinquished by:		Method of Shipment:			
Relinquished by:		Date/Time: 2-15-19 1546			
Relinquished by:		Date/Time: 2-15-19 1550			
Relinquished by:		Date/Time: 2-15-19 1025			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2-2-12-4-1-4			

Chain of Custody Record

Client Information Client Contact: <u>Debi Moore</u> Phone: <u>(432) 683-1100</u> Company: <u>Sport Environmental Services LLC</u>		Lab PM: <u>Gambill, Jennifer</u> E-Mail: <u>jennifer.gambill@testamerica.com</u>		Carrier Tracking No(s): Page: <u>14 of 15</u> Job #:	
Address: <u>502 N Big Spring St</u> City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u> Phone: <u>432-683-1100(Tel)</u> Email: <u>debi@sportenv.com</u> Project Name: <u>XTO Seven Rivers Queen</u> Site:		Due Date Requested: TAT Requested (days): PO #: <u>Purchase Order not required</u> WO #:		Analysis Requested	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, On-waste/oil, ST-Tissue, Adult)		Field Filtered Sample (Yes or No) Performed (Yes or No) Chloride 8015B_DRO, 8015B_GRO, 8260 BTEX (Hold)		Total Number of Containers Special Instructions/Note: LOC: 490 168662 #14 A	
HDP-SB-04-001 @ 8 'bgs HDP-SB-04-001 @ 12 'bgs HDP-SB-05-001 @ 0-1'bgs HDP-SB-05-001 @ 2 'bgs HDP-SB-05-001 @ 4 'bgs HDP-SB-05-001 @ 8 'bgs HDP-SB-05-001 @ 12 'bgs HDP-SB-06-001 @ 0-1'bgs HDP-SB-06-001 @ 2 'bgs HDP-SB-06-001 @ 4 'bgs HDP-SB-06-001 @ 8 'bgs		Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, On-waste/oil, ST-Tissue, Adult)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
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		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: <u>Debi Moore</u> Date/Time: <u>2-15-19 1546</u> Relinquished by: <u>Debi Moore</u> Date/Time: <u>2-15-19 1550</u> Relinquished by: <u>Debi Moore</u> Date/Time:		Method of Shipment: Date/Time: <u>2-15-19 1550</u> Date/Time: <u>2/16/19 1025</u> Date/Time:		Company: <u>PA</u> Company: <u>PA</u> Company:	
Custody Seals Intact: <u>Yes</u> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.2 2.9 1.6</u>		Ver: 08/04/2016	

Chain of Custody Record

Midland
#264

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Debi Moore Company: Debi Sport Moore Address: 502 N Big Spring St City: Midland State/Zip: TX, 79701 Phone: 432-683-1100(Tel) Email: debi@sportserv.com Project Name: XTO - Seven Rivers Green Site:		Lab PM: Gambill, Jennifer E-Mail: jennifer.gambill@testamericainc.com Phone: (432) 683-1100 Project #: 49014499 SOW#:		COC No: 490-96301-26265.15 Page: Page 15 of 15 Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested			
PO #: Purchase Order not required WO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification		Special Instructions/Note:			
Sample ID HDP-SB-06-001 @ 42' bgs 11' bgs	Sample Date 2-14-19	Sample Time 1423	Sample Type G=Grab	Matrix (W=Water, S=Soil, G=Gravel, O=Organic)	Field Filtered Sample (Yes or No) Chloride
HDP-SB-07-001 @ 0-1' bgs	2-14-19	0956	G	Solid	X
HDP-SB-07-001 @ 2' bgs	2-14-19	1000	G	Solid	X
HDP-SB-07-001 @ 4' bgs	2-14-19	1001	G	Solid	X
HDP-SB-07-001 @ 8' bgs	2-14-19	1008	G	Solid	X
HDP-SB-07-001 @ 12' bgs 10' bgs	2-14-19	1012	G	Solid	X
HDP-SB-08-001 @ 0-1' bgs	2-14-19	1523	G	Solid	X
HDP-SB-08-001 @ 2' bgs	2-14-19	1525	G	Solid	X
HDP-SB-08-001 @ 4' bgs	2-14-19	1527	G	Solid	X
HDP-SB-08-001 @ 8' bgs 7' bgs	2-14-19	1533	G	Solid	X
HDP-SB-08-001 @ 12' bgs vegetation 7' bgs	2-14-19	1533	G	Solid	X
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:		Method of Shipment:			
Relinquished by: Debi Moore		Date/Time: 2-15-19 1550			
Relinquished by: Debi Moore		Date/Time: 2-15-19 1025			
Relinquished by: Debi Moore		Date/Time: 2-15-19 1025			
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2.2 2.4 1.6			

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-169020-1

Client Project/Site: XTO Seven Rivers Queen

For:

Sport Environmental Services LLC

502 N Big Spring St

Midland, Texas 79701

Attn: Debi Sport Moore



Authorized for release by:

3/1/2019 2:34:05 PM

Jennifer Gambill, Project Manager I

(615)301-5044

jennifer.gambill@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-169020-1	HDP-SB-01-001 @ 0-1'bgs	Solid	02/20/19 07:30	02/23/19 09:10
490-169020-2	HDP-SB-01-001 @ 2'bgs	Solid	02/20/19 07:30	02/23/19 09:10
490-169020-3	HDP-SB-02-001 @ 0-1'bgs	Solid	02/20/19 07:51	02/23/19 09:10
490-169020-4	HDP-SB-02-001 @ 2'bgs	Solid	02/20/19 07:57	02/23/19 09:10
490-169020-5	HDP-SB-03-001 @ 0-1'bgs	Solid	02/20/19 08:12	02/23/19 09:10
490-169020-6	HDP-SB-03-001 @ 1.5'bgs	Solid	02/20/19 08:19	02/23/19 09:10
490-169020-7	HDP-SB-04-001 @ 0-1'bgs	Solid	02/20/19 08:29	02/23/19 09:10
490-169020-8	HDP-SB-04-001 @ 2'bgs	Solid	02/20/19 08:36	02/23/19 09:10
490-169020-9	HDP-SB-04-001 @ 3'bgs	Solid	02/20/19 08:42	02/23/19 09:10
490-169020-10	HDP-SB-05-001 @ 0-1'bgs	Solid	02/20/19 09:04	02/23/19 09:10
490-169020-11	HDP-SB-05-001 @ 2'bgs	Solid	02/20/19 09:04	02/23/19 09:10

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Job ID: 490-169020-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-169020-1

Comments

No additional comments.

Receipt

The samples were received on 2/23/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

Definitions/Glossary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-01-001 @ 0-1'bgs

Lab Sample ID: 490-169020-1

Date Collected: 02/20/19 07:30

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.86	6.90	mg/Kg			02/28/19 05:13	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-01-001 @ 2'bgs

Lab Sample ID: 490-169020-2

Date Collected: 02/20/19 07:30

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.83	6.88	mg/Kg			02/28/19 06:03	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-02-001 @ 0-1'bgs

Lab Sample ID: 490-169020-3

Date Collected: 02/20/19 07:51

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.1	7.04	mg/Kg			02/28/19 06:19	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-02-001 @ 2'bgs

Lab Sample ID: 490-169020-4

Date Collected: 02/20/19 07:57

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.96	6.97	mg/Kg			02/28/19 06:36	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-03-001 @ 0-1'bgs

Lab Sample ID: 490-169020-5

Date Collected: 02/20/19 08:12

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.94	6.96	mg/Kg			02/28/19 06:52	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-03-001 @ 1.5'bgs

Lab Sample ID: 490-169020-6

Date Collected: 02/20/19 08:19

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.98	6.99	mg/Kg			02/28/19 07:09	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-04-001 @ 0-1'bgs

Lab Sample ID: 490-169020-7

Date Collected: 02/20/19 08:29

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.89	6.93	mg/Kg			02/28/19 07:25	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-04-001 @ 2'bgs

Lab Sample ID: 490-169020-8

Date Collected: 02/20/19 08:36

Matrix: Solid

Date Received: 02/23/19 09:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.98	6.98	mg/Kg			02/28/19 07:42	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-04-001 @ 3'bgs

Lab Sample ID: 490-169020-9

Date Collected: 02/20/19 08:42

Matrix: Solid

Date Received: 02/23/19 09:10

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			02/28/19 07:59	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-05-001 @ 0-1'bgs

Lab Sample ID: 490-169020-10

Date Collected: 02/20/19 09:04

Matrix: Solid

Date Received: 02/23/19 09:10

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			02/28/19 08:15	1

Client Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-05-001 @ 2'bgs

Lab Sample ID: 490-169020-11

Date Collected: 02/20/19 09:04

Matrix: Solid

Date Received: 02/23/19 09:10

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			02/28/19 09:05	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-577196/1-A
Matrix: Solid
Analysis Batch: 577832

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		9.96	6.97	mg/Kg			02/28/19 04:23	1

Lab Sample ID: LCS 490-577196/2-A
Matrix: Solid
Analysis Batch: 577832

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	93.60		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 490-577196/3-A
Matrix: Solid
Analysis Batch: 577832

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	99.7	93.99		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 490-169020-1 MS
Matrix: Solid
Analysis Batch: 577832

Client Sample ID: HDP-SB-01-001 @ 0-1'bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		99.4	97.10		mg/Kg		98	80 - 120

Lab Sample ID: 490-169020-1 MSD
Matrix: Solid
Analysis Batch: 577832

Client Sample ID: HDP-SB-01-001 @ 0-1'bgs
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		99.8	96.97		mg/Kg		97	80 - 120	0	20

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

HPLC/IC

Leach Batch: 577196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-169020-1	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-2	HDP-SB-01-001 @ 2'bgs	Soluble	Solid	DI Leach	
490-169020-3	HDP-SB-02-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-4	HDP-SB-02-001 @ 2'bgs	Soluble	Solid	DI Leach	
490-169020-5	HDP-SB-03-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-6	HDP-SB-03-001 @ 1.5'bgs	Soluble	Solid	DI Leach	
490-169020-7	HDP-SB-04-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-8	HDP-SB-04-001 @ 2'bgs	Soluble	Solid	DI Leach	
490-169020-9	HDP-SB-04-001 @ 3'bgs	Soluble	Solid	DI Leach	
490-169020-10	HDP-SB-05-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-11	HDP-SB-05-001 @ 2'bgs	Soluble	Solid	DI Leach	
MB 490-577196/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-577196/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-577196/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-169020-1 MS	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169020-1 MSD	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	DI Leach	

Analysis Batch: 577832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-169020-1	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-2	HDP-SB-01-001 @ 2'bgs	Soluble	Solid	300.0	577196
490-169020-3	HDP-SB-02-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-4	HDP-SB-02-001 @ 2'bgs	Soluble	Solid	300.0	577196
490-169020-5	HDP-SB-03-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-6	HDP-SB-03-001 @ 1.5'bgs	Soluble	Solid	300.0	577196
490-169020-7	HDP-SB-04-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-8	HDP-SB-04-001 @ 2'bgs	Soluble	Solid	300.0	577196
490-169020-9	HDP-SB-04-001 @ 3'bgs	Soluble	Solid	300.0	577196
490-169020-10	HDP-SB-05-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-11	HDP-SB-05-001 @ 2'bgs	Soluble	Solid	300.0	577196
MB 490-577196/1-A	Method Blank	Soluble	Solid	300.0	577196
LCS 490-577196/2-A	Lab Control Sample	Soluble	Solid	300.0	577196
LCSD 490-577196/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	577196
490-169020-1 MS	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	300.0	577196
490-169020-1 MSD	HDP-SB-01-001 @ 0-1'bgs	Soluble	Solid	300.0	577196

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-01-001 @ 0-1'bgs

Date Collected: 02/20/19 07:30

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0429 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 05:13	JHS	TAL NSH

Client Sample ID: HDP-SB-01-001 @ 2'bgs

Date Collected: 02/20/19 07:30

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0506 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 06:03	JHS	TAL NSH

Client Sample ID: HDP-SB-02-001 @ 0-1'bgs

Date Collected: 02/20/19 07:51

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9813 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 06:19	JHS	TAL NSH

Client Sample ID: HDP-SB-02-001 @ 2'bgs

Date Collected: 02/20/19 07:57

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0112 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 06:36	JHS	TAL NSH

Client Sample ID: HDP-SB-03-001 @ 0-1'bgs

Date Collected: 02/20/19 08:12

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0193 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 06:52	JHS	TAL NSH

Client Sample ID: HDP-SB-03-001 @ 1.5'bgs

Date Collected: 02/20/19 08:19

Date Received: 02/23/19 09:10

Lab Sample ID: 490-169020-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0058 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 07:09	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Client Sample ID: HDP-SB-04-001 @ 0-1'bgs

Lab Sample ID: 490-169020-7

Date Collected: 02/20/19 08:29

Matrix: Solid

Date Received: 02/23/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0321 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 07:25	JHS	TAL NSH

Client Sample ID: HDP-SB-04-001 @ 2'bgs

Lab Sample ID: 490-169020-8

Date Collected: 02/20/19 08:36

Matrix: Solid

Date Received: 02/23/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0069 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 07:42	JHS	TAL NSH

Client Sample ID: HDP-SB-04-001 @ 3'bgs

Lab Sample ID: 490-169020-9

Date Collected: 02/20/19 08:42

Matrix: Solid

Date Received: 02/23/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0404 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 07:59	JHS	TAL NSH

Client Sample ID: HDP-SB-05-001 @ 0-1'bgs

Lab Sample ID: 490-169020-10

Date Collected: 02/20/19 09:04

Matrix: Solid

Date Received: 02/23/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0299 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 08:15	JHS	TAL NSH

Client Sample ID: HDP-SB-05-001 @ 2'bgs

Lab Sample ID: 490-169020-11

Date Collected: 02/20/19 09:04

Matrix: Solid

Date Received: 02/23/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.9914 g	30 mL	577196	02/27/19 10:35	JHS	TAL NSH
Soluble	Analysis	300.0		1			577832	02/28/19 09:05	JHS	TAL NSH

Laboratory References:

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

TestAmerica Nashville

Method Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	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.

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: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169020-1

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	06-30-19
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	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
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	12-31-19
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	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-19
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	12-30-19
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	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 Nashville



COOLER RECEIPT FORM

Cooler Received/Opened On 2/23/2019 @ 0910
Time Samples Removed From Cooler 1558 Time Samples Placed In Storage 1607 (2 Hour Window)

1. Tracking # 7795 (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: 9.8 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 (initial) [Signature]
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



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # GH
I certify that I unloaded the cooler and answered questions 7-14 (initial) GH
- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? GH 2-23-19 YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used GH 2-23-19 YES...NO...NA
16. Was residual chlorine present? GH 2-23-19 YES...NO...NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) 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 (initial) GH
- I certify that I attached a label with the unique LIMS number to each container (initial) GH
21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# 0

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-169143-1

TestAmerica SDG: XTO Seven Rivers Queen: NRP-SB-14

Client Project/Site: XTO Seven Rivers Queen

For:

Sport Environmental Services LLC

502 N Big Spring St

Midland, Texas 79701

Attn: Debi Sport Moore

Jennifer Gambill

Authorized for release by:

3/6/2019 4:52:07 PM

Jennifer Gambill, Project Manager I

(615)301-5044

jennifer.gambill@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-169143-1	NRP-SB-14-001 @ 0-1'bgs	Solid	02/14/19 15:31	02/27/19 10:10

Case Narrative

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Job ID: 490-169143-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-169143-1

Comments

No additional comments.

Receipt

The sample was received on 2/27/2019 10:10 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

HPLC/IC

Method(s) 9056A: The matrix spike duplicate (MSD) recoveries for preparation batch 490-578868 and analytical batch 490-578902 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9056A: The method blank for analytical batch 490-578902 contained Chloride above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and 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
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Client Sample ID: NRP-SB-14-001 @ 0-1'bgs

Lab Sample ID: 490-169143-1

Date Collected: 02/14/19 15:31

Matrix: Solid

Date Received: 02/27/19 10:10

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176	F1	11.7	8.18	mg/Kg	☼		03/05/19 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		0.1	0.1	%			02/28/19 11:27	1
Percent Solids	85.4		0.1	0.1	%			02/28/19 11:27	1

QC Sample Results

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-578868/1-A

Matrix: Solid

Analysis Batch: 578902

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		10.0	7.03	mg/Kg			03/05/19 16:25	1

Lab Sample ID: LCS 490-578868/2-A

Matrix: Solid

Analysis Batch: 578902

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.4		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 490-578868/3-A

Matrix: Solid

Analysis Batch: 578902

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	100.4		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 490-169143-1 MS

Matrix: Solid

Analysis Batch: 578902

Client Sample ID: NRP-SB-14-001 @ 0-1'bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	176	F1	117	299.0		mg/Kg	✱	105	80 - 120

Lab Sample ID: 490-169143-1 MSD

Matrix: Solid

Analysis Batch: 578902

Client Sample ID: NRP-SB-14-001 @ 0-1'bgs

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	176	F1	117	265.7	F1	mg/Kg	✱	77	80 - 120	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 490-169206-F-1 DU

Matrix: Solid

Analysis Batch: 578034

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.8		11.6		%		1	20
Percent Solids	88.2		88.4		%		0.2	20

QC Association Summary

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

HPLC/IC

Leach Batch: 578868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-169143-1	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
MB 490-578868/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 490-578868/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 490-578868/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
490-169143-1 MS	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	DI Leach	
490-169143-1 MSD	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	DI Leach	

Analysis Batch: 578902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-169143-1	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	9056A	578868
MB 490-578868/1-A	Method Blank	Soluble	Solid	9056A	578868
LCS 490-578868/2-A	Lab Control Sample	Soluble	Solid	9056A	578868
LCSD 490-578868/3-A	Lab Control Sample Dup	Soluble	Solid	9056A	578868
490-169143-1 MS	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	9056A	578868
490-169143-1 MSD	NRP-SB-14-001 @ 0-1'bgs	Soluble	Solid	9056A	578868

General Chemistry

Analysis Batch: 578034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-169143-1	NRP-SB-14-001 @ 0-1'bgs	Total/NA	Solid	Moisture	
490-169206-F-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Sport Environmental Services LLC
Project/Site: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Client Sample ID: NRP-SB-14-001 @ 0-1'bgs

Lab Sample ID: 490-169143-1

Date Collected: 02/14/19 15:31

Matrix: Solid

Date Received: 02/27/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			3.0059 g	30 mL	578868	03/05/19 14:43	SOO	TAL NSH
Soluble	Analysis	9056A		1			578902	03/05/19 17:10	SW1	TAL NSH
Total/NA	Analysis	Moisture		1			578034	02/28/19 11:27	BAA	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: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL NSH

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: XTO Seven Rivers Queen

TestAmerica Job ID: 490-169143-1
SDG: XTO Seven Rivers Queen: NRP-SB-14

Laboratory: TestAmerica Nashville

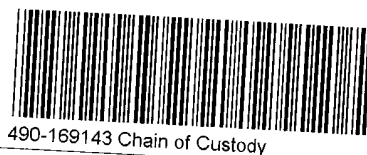
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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	06-30-19
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	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
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	12-31-19
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	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-19
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	12-30-19
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	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 Nashville

COOLER RECEIPT FORM



Cooler Received/Opened On 2/27/2019 @ 10:10

Time Samples Removed From Cooler 12:49 Time Samples Placed In Storage 12:51 (2 Hour Window)

1. Tracking # 0032 (last 4 digits, FedEx) Courier: Fedex

IR Gun ID 31470366 pH Strip Lot MA Chlorine Strip Lot MA

2. Temperature of rep. sample or temp blank when opened: 1.3 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 (YES)

If yes, how many and where: 1 Front

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

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

I certify that I opened the cooler and answered questions 1-6 (initial) ACE

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

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

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

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

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

b. Was there any observable headspace present in any VOA vial? YES...NO...NA (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 (initial) ACE

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

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

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

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

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

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

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

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

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

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

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

Chain of Custody Record

Client Information Client Contact: Debi Sport Moore Company: Sport Environmental Services LLC Address: 502 N Big Spring St City: Midland State: TX, Zip: 79701 Phone: 432-683-1100(Tel) Email: debi@sportenv.com Project Name: XTO Seven Rivers Queen Site: XTO Seven Rivers Queen: NRP-SB-14		Sampler: C. Elliott and C. Logie Lab PM: Gambill, Jennifer Phone: (432) 883-1100 E-Mail: jennifer.gambill@testamericainc.com		Carrier Tracking No(s): 490-96301-26265.12 Page: Page 1 of 1 Job #:	
Analysis Requested Due Date Requested: 5 days TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 49014499 SSOW#:					
Sample Identification Sample ID: NRP-SB-14-001 @ 0-1bgs		Sample Date: 2/14/19 Sample Time: 1531 Sample Type: G Solid Matrix: (W=water, S=solid, O=waste/oil, BT=biological, A=air)		Field Filtered Sample (Yes or No) ☒ No Field Filtered Sample (Yes or No) ☒ No Chloride ☒ No	
Total Number of Containers: 1		Special Instructions/Note: Loc: 490 169143		Preservation Codes: A - HCL B - NaOH N - None C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
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:					
Relinquished by: <i>C. Elliott & C. Logie</i> Relinquished by: <i>Debi Sport Moore</i> Relinquished by:		Date: 02/26/2019 @ 1306 Date: 2-26-19 Date: 2/27/19 10:10		Company: Sport Environmental Company: TestAmerica Company: TestAmerica	
Relinquished by:		Date:		Method of Shipment:	
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 1.3°		Ver: 08/04/2016	

Attachment H

Boring & Excavation Logs



NOTES:



Client: XTO Energy, Inc.
Project: Seven Rivers Queen (1R-5218)
Address: 502 N. Big Spring St., Midland, TX

BORING LOG
Boring No. NRP-BG-001
Page: 1 of 1

Drilling Start Date: 02/14/2019 09:20

Drilling End Date: 02/14/2019 09:27

Drilling Company: Sport Environmental Services, LLC

Drilling Method: Direct Push

Drilling Equipment: Geoprobe 540UD

Driller: Clint Elliott

Logged By: Cianna Logie

Boring Depth (ft): 4.0

Boring Diameter (in): 2.00

Sampling Method(s):

DTW During Drilling (ft): N/A

DTW After Drilling (ft): N/A

Ground Surface Elev. (ft): 3,605.00

Location (Lat, Long): 32.41884, -103.27051

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Poorly graded SAND with silt (SP-SM); mostly fine-medium grained sand, few silt, few clay, loose, moist, 10YR (3/4) dark yellowish brown., no odor, slight hydrochloric acid reaction. Clean fill soil and blow sand.			0
1											1
2											2
3								(2.75') Fat CLAY with sand (CH); high plasticity, hard, dry, 10YR(8/2) very pale brown., No odor. Strong hydrochloric acid reaction.			3
								(3') Fat CLAY (CH); few fine-medium sand, few silt, mostly clay, high plasticity, hard, dry, 10YR(8/2) very pale brown, no odor, strong hydrochloric acid reaction. Caliche.			
4								(4') Boring terminated			4
5											5

NOTES: Additional pipe was added to the excavation at 0931 to advance the borehole. However, the borehole was ultimately terminated at 4 feet below ground surface ('bgs) due to auger refusal. This area is immediately north of a pit that was previously used for mining caliche.



Client: XTO Energy, Inc.
Project: Seven Rivers Queen (1R-5218)
Address: 502 N. Big Spring St., Midland, TX

BORING LOG
Boring No. NRP-SB-01-001
Page: 1 of 1

Drilling Start Date: 02/14/2019 10:15
Drilling End Date: 02/14/2019 10:21
Drilling Company: Sport Environmental
Drilling Method: Hollow Stem Auger
Drilling Equipment: Hand Auger
Driller: Clint Elliott
Logged By: Cianna Logie

Boring Depth (ft): 1.5
Boring Diameter (in): 4.00
Sampling Method(s):
DTW During Drilling (ft): N/A
DTW After Drilling (ft): N/A
Ground Surface Elev. (ft): 3,588.00
Location (Lat, Long): 32.418677, -103.270721

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, some silt, trace clay, nonplastic, soft, moist, 10YR(3/4) dark yellowish brown, slight hydrochloric acid reaction, no organic material, no odor. Fresh fill soil and some blow sand.			0
1								(1') Fat CLAY (CH); few fine-medium sand, few silt, mostly clay, high plasticity, hard, dry, 10YR (8/2) very pale brown, no odor, strong hydrochloric acid reaction. Caliche.			1
2								(1.5') Boring terminated			2
3											3
4											4
5											5

NOTES: Hand auger was utilized due to the presence of buried pipes near the road right of way. Fresh fill soil was present at this location and some blow sand was present in the top two inches of soil. Site is north of a pit which was previously utilized for caliche mining. Caliche is present at this location and similar locations along the east/west sampling locations at depths from 1'bgs to 4'bgs.



Client: **XTO Energy, Inc.**
Project: **Seven Rivers Queen (1R-5218)**
Address: **502 N. Big Spring St., Midland, TX**

BORING LOG
Boring No. **SRP-SB-04-001**
Page: **1 of 1**

Drilling Start Date: **02/14/2019 13:44**
Drilling End Date: **02/14/2019 14:00**
Drilling Company: **PMI**
Drilling Method: **Other**
Drilling Equipment: **Excavator with rock teeth**
Driller: **Dean Smyers**
Logged By: **Cianna Logie**

Boring Depth (ft): **11.0**
Boring Diameter (in): **0**
Sampling Method(s):
DTW During Drilling (ft): **N/A**
DTW After Drilling (ft): **N/A**
Ground Surface Elev. (ft): **3,580.00**
Location (Lat, Long): **32.41825, -103.27033**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Fat CLAY (CH); few fine-medium sand, trace silt, mostly clay, high plasticity, hard, dry, 10YR(8/2) very pale brown, no odor; strong hydrochloric acid reaction; caliche.			0
5											5
10											10
15								(11') Boring terminated			15

NOTES: Location is in a pit that was previously utilized for mining caliche. Some blow sand was also present in the excavated area; however, this site still consists primarily of caliche.

Attachment I
Photographic Log with Geotagged Photos

Photographic Log – Seven Rivers Queen (1RP-5218)

DIRECTION 32.41849°N
154 deg(T) 103.27033°W
ACCURACY 4 m
DATUM WGS84



The subject site experienced a release of low-chloride (less than 6,000 ppm) produced water. The flow path is visible and shows that the water traveled down-gradient into a pit that had previously been utilized as a source of caliche. This caliche pit was in the process of being closed when the release occurred. The free liquids were removed promptly and properly disposed of by the client. White flags to mark the affected areas as shown in this photograph were in place and accurately denoted the spill path as confirmed by soil sampling.

DIRECTION 32.41814°N
76 deg(T) 103.26987°W
ACCURACY 41 m
DATUM WGS84



The depth of an excavation point associated with the South Release Path (SRP) is measured while confirmation soil sampling occurs. This area consists primarily of caliche.

DIRECTION 72 deg(T) 32.41941°N 103.27002°W ACCURACY 144 m DATUM WGS84  2019-02-14 14:53:21-06:00	An excavator with special rock teeth is present within the caliche pit. Use of the excavator was necessary given the hard caliche material present at the subject site.
DIRECTION 164 deg(T) 32.41854°N 103.27015°W ACCURACY 4 m DATUM WGS84  2019-02-20 08:28:35-06:00	Use of the Geoprobe 540UD equipment was possible in areas where underground piping was not anticipated to be present and where its use had been approved. Discrete depth sampling was possible using direct push technology.
DIRECTION 188 deg(T) 32.41867°N 103.27001°W ACCURACY 6 m DATUM WGS84  2019-02-20 08:46:27-06:00	In some locations, the use of an excavator or Geoprobe was not possible due to safety concerns. In those instances, a stainless-steel hand auger was utilized to obtain discrete depth soil samples.



A bulldozer was utilized to blend and feather the Seven Rivers Queen location after confirmation sampling demonstrated that concentrations of relevant constituents of concern were below their respective regulatory limits.



A final photograph taken on June 10, 2019 shows that feathering to local topography has been achieved.