

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email Shelby_Pennington@xtoenergy.com	Incident # (assigned by OCD) 1RP-4832 & 1RP-5340
Contact mailing address 6401 Holiday Hill Rd. Building 5 Midland TX 79707	

Location of Release Source

Latitude 32.57479°N Longitude -103.32164°W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name EMSU Satellite #13	Site Type Flowline
Date Release Discovered 9/20/2017 & 1/07/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	14	20S	36E	Lea

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

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) 34.06 bbls & 332 bbls	Volume Recovered (bbls) 0 bbls & 300 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The first release (1RP-4823) occurred due to the rupture of a north to south trending flowline. The second release (1RP-5340) occurred during remediation of the first release when a backhoe operator struck the east to west trending flowline.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The releases were greater than 25 bbls of liquid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? A verbal notice was given to Olivia Yu by Shannon Walker for 1RP-4832 on the same day of the release. An email notice was given to Christina Hernandez and Jim Griswold by Shelby Pennington for 1RP-5340 the day following the release.	

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: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Shelby Pennington	Title: Environmental Coordinator
Signature: <u>Shelby Pennington</u>	Date: 7/3/2019
email: <u>Shelby_Pennington@xtoenergy.com</u>	Telephone: 281-723-9353
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>35</u> (ft bgs)
Did this release impact groundwater or surface water?	☒ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Printed Name: Shelby Pennington Title: Environmental Coordinator
Signature: Shelby Pennington Date: 7/3/2019
email: Shelby_Pennington@xtoenergy.com Telephone: 281-723-9353

OCD Only

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Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Shelby Pennington Title: Environmental Coordinator
Signature: *Shelby Pennington* Date: 7/3/2019
email: Shelby_Pennington@xtoenergy.com Telephone: 281-723-9353

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
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Closure

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

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

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

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

Printed Name: Shelby Pennington Title: Environmental Coordinator
Signature: Shelby Pennington Date: 7/3/2019
email: Shelby_Pennington@xtoenergy.com Telephone: 281-723-9353

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

**1RP-4832 and 1RP-5340
CLOSURE REPORT
EMSU B Satellite 13 Trunk Line Leak
Lea County, New Mexico**

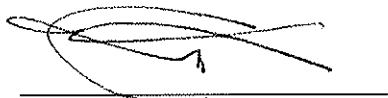
Latitude: 32° 34' 32.79"
Longitude: 103° 19' 19.06"

LAI Project No. 17-0193-01

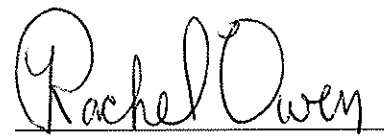
July 1, 2019

Prepared for:
XTO Energy, Inc.
6401 Holiday Hill Road, Building 5
Midland, Texas 79707

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701



Mark J. Larson, P.G.
Certified Professional Geoscientist #10490



Rachel Owen
Sr. Geoscientist

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1.0 INTRODUCTION

Larson & Associates, Inc., (LAI) has prepared this closure report on behalf of XTO Energy, Inc. (XTO) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for two (2) produced water spills from two (2) fiberglass trunk lines near the Eunice Monument South Unit (EMSU) B Satellite #13 (Site) located in Unit G (SW/4, NE/4), Section 14, Township 20 South, Range 37 East in Lea County, New Mexico. The geodetic position is North 32° 34' 32.79" and West 103° 19' 19.06". Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The first spill occurred on September 20, 2017, due to rupture in a north to south trending trunk line releasing approximately 34.06 barrels (bbl) of produced water with 0 bbl recovered. The release covered an area estimated at approximately 10 x 45 feet or about 450 square feet. Soil was excavated to approximately four (4) feet below ground surface (bgs) to repair the pipe. The second spill occurred during remediation of the first spill when an east to west trending 3 inch diameter fiberglass trunk line was struck with the excavator bucket causing approximately 332 bbl of produced water to flow into the completed excavation from the first spill. Approximately 300 bbl of produced water from the second spill was recovered. The surface owner is Jimmie T. Cooper. The mineral owner is the United States of America (US) administered by the Department of the Interior Bureau of Land Management (BLM).

On September 28, 2017, XTO submitted the C-141 for the first spill to OCD District 1 which assigned the release remediation permit number 1RP-4832. On January 9, 2019, XTO submitted the C-141 for the second spill to OCD District 1, which assigned remediation permit number 1RP-5340. Appendix A presents both C-141s. Appendix B presents regulatory communications.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,558 feet above mean sea level (MSL);
- The topography slopes towards the east and southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Wink fine sand", consisting of approximately 12 inches of fine sand underlain by about 12 inches of sandy loam to approximately 60 inches derived from sedimentary rock;
- The upper geological unit is the Tertiary-age Blackwater Draw and Ogallala formations, in descending order, comprised of very fine to medium-grained quartz sand and gravel, with minor amount of silt and clay with indistinct to massive cross beds;
- The Ogallala formation is underlain by clay, silty clay, shale and sandstone of the Chinle formation (Triassic) and is about 300 feet thick;
- According to records from the U.S. Geological Survey (U.S.G.S.) and State of New Mexico Office of the State Engineer (OSE) the nearest fresh water well is located in Unit G (SW/4, NE/4), Section 14, Township 20 South, Range 36 East or about 410 feet southwest from the Site;
- Groundwater occurs at approximately 35 feet bgs.

1.3 Remediation Levels

The following remediation levels are based on closure criteria for soils impacted by a release as presented in Table 1 (19.15.29 NMAC):

- Benzene 10 mg/Kg

- BTEX 50 mg/Kg
- TPH 100 mg/Kg
- Chloride 600 mg/Kg

2.0 DELINEATION

On December 8 and 11, 2017, LAI personnel used a stainless steel hand auger to collect soil samples from the bottom of the excavation for repairing the pipe (HA-1) to approximately 9 feet bgs and sidewalls at approximately 2 feet bgs. Direct push technology (DPT) was used to collect soil samples at six (6) locations (DP-1 through DP-6) surrounding HA-1 between approximately 3 feet (DP-1) and 12 feet (DP-2) bgs. Permian Basin Environmental Lab (PBEL) analyzed the excavation (HA-1) samples for total petroleum hydrocarbons (TPH), including gasoline range organics (C6 – C12), diesel range organics (>C12 – C28) and oil range organics (>C28 – C35) by EPA SW-846 Method 8015 and chloride by EPA Method 300. The DPT (0 to 1 foot) samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA SW-846 Method 8021B, TPH and chloride.

On April 6 and 24, 2018, Scarborough Drilling Inc. (SDI), under supervision from LAI, used an air rotary rig and jam tube sampler to collect additional soil samples for chloride delineation at HA-1, DP-2, DP-5, DP-6, DP-7 and DP-9 through DP-13. Soil samples were collected every five (5) feet to total depth between approximately 25 feet (DP-2, DP-5 and DP-6) and 35 feet (DP-7, DP-9, and DP-10 through DP-13). PBEL analyzed the samples for chloride by EPA Method 300.

Benzene and BTEX were below the analytical method reporting limits. TPH was reported above the remediation level (100 mg/) in the bottom and sidewall samples from the excavation. Chloride exceeded the delineation limit (600 mg/kg) in the deepest samples at the following locations:

Boring	Depth	Chloride (mg/Kg)
HA-1	35	1,170
DP-2	25	735
DP-5	25	985
DP-6	25	685
DP-7	35	1,150
DP-11	35	1,770
DP-12	35	2,120

Table 1 presents the delineation soil sample analytical data summary. Appendix C presents the laboratory reports. Appendix D presents the boring logs.

On July 13, 2018, LAI, on behalf of XTO, submitted a delineation report and proposed remediation plan to OCD District 1. OCD District 1 approved the remediation plan on July 23, 2018, with the following comments and conditions:

- Please use different colors within a single map to facilitate interpretation and approval.
- Please clarify location of the 4' extended excavation relative to the other excavations as it is unclear. Will it be 10 ft north of the current excavation or 10 ft north of the proposed 12' extended excavation?

- Areas that show historic releases (DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12, DP-13) must be remediated as well due to high mobility of chlorides.

Delineation completed and proposed remediation is approved with the following stipulations:

- Please note that both proposed monitoring wells are required, one up gradient and one down gradient from spill release location as noted. (Mr. Brad Billings, NMOCD Santa Fe, may have additional stipulations).
- Please be advised that all laboratory analyses (Benzene, BTEX, and TPH extended) are required for proposed 12' and 4' extended excavation confirmation bottom and sidewall sample locations; complete laboratory analyses will also be required for groundwater testing.
- Please address historical releases; please be advised to excavate to 4' at these (DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12, DP-13) locations and collect sidewall samples as well.
- After proper placement of 20 mil liner and back filling, sample every 50 cubic yards.

BLM approved the delineation report and remediation plan on September 19, 2018. Appendix B presents regulatory communications.

3.0 REMEDIATION

3.1 Monitoring Wells and Groundwater Samples

On December 28, 2018, SDI, under supervision from LAI, used an air rotary rig and 5 inch bit to drill two (2) borings northwest (TMW-1) and southeast (TMW-2) of the release. The borings were drilled to 47.64 feet bgs (TMW-1) and 47.67 feet bgs (TMW-2) and completed with 2 inch schedule 40 threaded PVC and twenty (20) feet of well screen positioned between about 27 and 47 feet bgs. The well screens were surrounded with graded silica sand to about 3 feet above the screens. The remainder of the annulus above the sand and between the well and boring was filled with bentonite chips to about 2 feet bgs and hydrated with potable water. A locking steel cover was placed over the casing stickup measured at about 2.96 feet (TMW-1) and 2.98 feet (TMW-2) and anchored in concrete. Groundwater was gauged at approximately 36.55 and 37.00 feet bgs at the time of well completion and stabilized at 36.54 feet bgs (TMW-1) and 37.02 feet bgs (TMW-2), on January 2, 2019. Table 2 presents the monitoring well completion and gauging summary. Figure 4 presents an aerial drawing showing locations for TMW-1 and TMW-2. Appendix D presents the boring logs and well completion records. Appendix F presents the OSE well permit.

On January 2, 2019, LAI personnel developed the wells by pumping with an electric submersible pump. The pump was thoroughly decontaminated between wells by cleaning with a solution of potable water and laboratory-grade detergent (Alconox®) and rinsed with distilled water. Polyethylene used for discharging groundwater was discarded between wells. Groundwater samples were collected with dedicated polyethylene bailers and carefully poured into laboratory containers that were sealed, labeled and submitted under preservation and chain of custody to DHL Analytical, a National Environmental Laboratory Accreditation Programs (NELAP) accredited laboratory located in Round Rock, Texas. DHL analyzed the samples for BTEX and chloride by EPA SW-846 Method 8021B and Method 300, respectively. BTEX was not reported above the analytical method reporting limits. Chloride was

reported at 637 milligrams per liter (mg/L) in well TMW-1 (up gradient) and 4,260 mg/L in well TMW-2 (down gradient). The chloride concentrations exceed the New Mexico Water Quality Control Commission (NMWQCC) domestic water quality standard (250 mg/L). Table 3 presents the groundwater analytical data summary. Appendix C presents laboratory report.

3.2 Soil Remediation

3.2.1 Initial Spill (1RP-4832) Remediation

On November 16, 2018, SDR Enterprises LLC (SDR), under supervision from LAI, excavated soil from the area encompassing HA-1 to approximately 10 feet bgs over an area measuring approximately 536 square feet. Between November 30, 2018 and December 3, 2018, the excavation was expanded to approximately 5,454 based on laboratory analysis of sidewall and bottom confirmation samples (S-1 through S-19). The excavation in the area of HA-1 was approximately 10 feet deep with the remaining excavation approximately 4 feet deep. Table 2 presents the confirmation sample analytical data summary. Figure 5 presents the excavation and confirmation sample locations. Appendix C presents the laboratory reports.

Soil was excavated around borings DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12 and DP-13 for approximately 100 square feet around to the depth of 4 feet bgs. Sidewall confirmation samples were collected at approximately 2 feet bgs from each excavation and were analyzed for BTEX, TPH and chloride. Benzene, BTEX and TPH were not reported in the samples above the analytical method reporting limits. Chloride concentrations reported below OCD closure criteria of 600 mg/Kg, as presented in Table 1 (19.15.29 NMAC) in all samples. A 20 mil polyethylene liner was placed in the bottom of each excavation (DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12 and DP-13) and covered with topsoil to ground surface and seeded according to surface owner (Jimmie Cooper) instructions. Table 2 presents the confirmation sample analytical data summary. Figure 5 presents the excavation and confirmation sample locations. Appendix C presents the laboratory reports.

On January 7, 2019, while expanding the main excavation (HA-1) west between sample locations S-13 and S-14, a 3 inch fiberglass trunk line thought to run from east to west turned northwest and was struck with the excavator bucket causing the second spill to occur. The second spill flowed east onto the surface of the 4-foot deep excavation and into the deeper excavation between about 6 and 12 feet deep. XTO requested a vacuum truck to recover approximately 300 bbl of the estimated 332 bbl spilled and visually contaminated soil was scraped from the surface of the 4-foot excavation. On January 11, 2019, XTO and LAI personnel met with OCD District 1 Environmental Specialist, Christina Hernandez, to discuss remediation of the initial spill and the resulting spill that occurred from the line strike. OCD agreed that no further remediation was necessary for the initial release but remediation was necessary for the second release on January 7, 2019. On January 28, 2019, the C-141 for the second spill was submitted to OCD District 1.

3.2.2 Second Spill (1RP-5340) Remediation

Due to confined space safety concerns and limited access it was decided to utilize vacuum extraction to remediate the oil and produced water impacted soil in the bottom of the deep excavation between approximately 6 and 12 feet bgs. On January 22 and 23, 2019, Oilfield Safety and Environmental Services (OFSES) was contracted to use an extended suction line and high vacuum to extract the oil and produced water impacted soil from the bottom of the deep excavation however this approach was abandoned due to additional safety concerns and equipment limitations.

On March 4 and 8, 2019, LAI personnel used stainless steels hand augers to collect soil samples from the bottom of the 4 foot excavation (S-1 through S-6) and deep excavation between approximately 6 and 12 feet (S-7 through S-14) to delineate the vertical extent of benzene, BTEX, TPH and chloride impact from the second release. PBEL analyzed the samples and reported benzene and BTEX below the OCD remediation levels in Table 1 (19.15.29 NMAC). TPH exceeded the remediation level (100 mg/Kg) in samples S-2 from the 4 foot deep excavation (455.3 mg/Kg) and ranged from 275 mg/Kg in sample S-14, 10 feet to 24,690 mg/Kg in sample S-12, 11 feet. TPH was delineated vertically to less than 100 mg/Kg. Chloride in the deepest samples from S-7 through S-14 ranged from 477 mg/Kg in sample S-13, 11 feet to 2,470 mg/Kg in sample S-12, 13 feet. Table 4a presents the delineation sample analytical data summary for the second release. Figure 6 presents the soil sample locations. Appendix C presents the laboratory reports.

On May 6, 2019, XTO shut-in the field for automation upgrades and removed the segment of 4 inch fiberglass line where the initial release occurred to allow access to safely complete the remediation. Between May 7 and 17, 2019, SDR, under supervision from LAI, excavated soil to about 6.5 feet bgs from the area of sample S-2, in the bottom and sides of the 4 foot deep excavation. Soil was excavated from the deep excavation between about 11 feet bgs (S-13 and S-14) to about 18 feet bgs (S-9 and S-11). Confirmation samples were collected from the bottom and sidewalls and were analyzed for BTEX, TPH and chloride. All bottom and sidewall samples confirm BTEX and TPH were remediated below the OCD closure criteria in Table 1 (19.15.29 NMAC). Chloride in the bottom samples ranged from 274 mg/Kg (S-12, 14 feet) to 2,650 mg/Kg (S-6, 4 feet). The highest chloride concentration reported in the sidewall samples was 3,450 mg/Kg from the south side at S-14, 5.5 feet bgs. Table 4a presents the confirmation sample analytical data summary for the second release. Figure 7 presents the excavation and soil sample locations. Appendix C presents the laboratory reports.

The deep excavation was backfilled to approximately 4 feet bgs with caliche acquired from the surface owner. On May 17, 2019, Akome Inc. installed a 20 mil thickness liner in the bottom of the 4 foot excavation measuring approximately 8,400 square feet. The liner was placed beneath the new segment of 4 inch fiberglass line and a 10 inch steel cement lined injection line. The lines were covered with clean sand prior to covering with caliche to approximately 1.5 feet bgs. The remainder of the excavation was filled with topsoil acquired from the surface owner. The Site will be seeded to the landowner's requirements. Approximately 1,636 cubic yards of caliche and 996 cubic yards of topsoil were used to fill the excavation. Table 5 presents the chloride analytical data summary for the backfill samples. Approximately 1,956 cubic yards of contaminated soil was disposed at Sundance Disposal located east of Eunice, New Mexico. Appendix G presents the waste manifests.

3.0 CLOSURE

XTO requests no further actions for soil remediation associated with 1RP-4832 and 1RP-5340.

4.0 GROUNDWATER ASSESSMENT

XTO proposes the following for assessing the groundwater impact.

4.1 EM-34 Conductivity Survey

An electromagnetic (EM) terrain conductivity survey will be performed to qualitatively assess the extent of groundwater impacted from chloride. The survey will be performed using an EM-34 terrain conductivity meter manufactured by Geonics Ltd., Mississauga, Ontario, Canada. The EM-34 detects

elevated conductivity in soil and groundwater relative to background which corresponds to elevated chloride in soil and groundwater. The depth of exploration is determined by the spatial separation between the transmitter and receiver coils and the orientation of the coils (i.e., horizontal (HD) or vertical dipole (VD)). The EM-34 has maximum depth of exploration capabilities of 0 to 24.6 feet bgs (HD) and 0 to 49.2 feet bgs (VD) with the 10-meter coil separation. The maximum response of the EM-34 in the HD mode occurs near the surface and decreases with depth. The maximum response of the EM-34 in the VD mode occurs at a depth equal to approximately 75 percent of the exploration depth or about 36.9 feet bgs in the 10 meter coil separation and is suited for detecting elevated chloride in groundwater at the Site. The results of the EM-34 survey will be used for selecting locations for installing down gradient monitoring wells.

4.2 Monitoring Wells

Locations for additional monitoring wells will be based on the results of the EM-34 terrain conductivity survey. Approximately 4 to 6 locations may be selected for installing monitoring wells to delineate the release. An application will be filed with the OSE to obtain a permit to install the wells. The wells will be drilled between about 45 and 50 feet bgs and completed with 2 inch schedule 40 PVC threaded casing and about 20 feet of factory slotted screen. The well screen will be placed above and below the groundwater level observed during drilling. The well screen will be surrounded with graded silica sand compatible with the screen slot size. The sand will be placed around the screen to a depth about 2 feet above the screen. The annulus above the sand to ground surface will be filled with bentonite chips and hydrated with potable water. The well will be secured with a locking cap. A State of New Mexico licensed driller will drill the wells with a truck mounted air rotary rig or equivalent rig. A State of New Mexico licensed professional land surveyor will survey the wells for location and elevation including top of casing and groundwater elevation referenced to the nearest USGS datum. Drill cuttings will be placed on the ground adjacent to the borings.

4.3 Groundwater Samples

The well will be developed by pumping with an electric submersible pump until groundwater is visibly clear of suspended solids. The purged water will be contained in a 55 gallon drum or in a portable tank and disposed in an OCD permitted disposal well. Groundwater samples will be collected following well development and analyzed by a NELAP certified laboratory for BTEX and chloride.

4.4 Hydraulic Conductivity (Slug) Testing

The wells will be tested for in-situ horizontal hydraulic conductivity by slug test method to assist with developing a groundwater remediation plan.

4.5 Report and Remediation Plan

A comprehensive report will be prepared with recommendation for remediation. The report will include maps showing the EM-34 survey results, monitoring well locations, boring logs, well completion diagrams, discussions of the plume boundaries, contaminant concentrations and recommendation for remediation.

Figures

1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU B Satellite 13 Trunk Line
XTO Energy, Inc.

Sample	Depth (Feet)	Collection Date	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RRAL			10	50				100	600
Excavation Soil Samples									
HA-1	4 - 5	12/11/2017	--	--	<29.4	66.1	<29.4	66.1	397
	5 - 6	12/11/2017	--	--	<27.8	<27.8	<27.8	<27.8	366
	6 - 7	12/11/2017	--	--	<27.2	637	132	769	633
	7 - 8	12/11/2017	--	--	36.0	1,150	233	1,409	786
	8 - 9	12/11/2017	--	--	<26.3	217	58.8	275.8	777
	10	04/24/2018	--	--	--	--	--	--	551
	15	04/24/2018	--	--	--	--	--	--	926
	20	04/24/2018	--	--	--	--	--	--	1070
	25	04/24/2018	--	--	--	--	--	--	469
	30	04/24/2018	--	--	--	--	--	--	859
	35	04/24/2018	--	--	--	--	--	--	1,170
SW-N	2	12/11/2017	--	--	<25.5	627	212	839	1,480
SW-S	2	12/11/2017	--	--	<26.0	134	40.6	174.6	1,480
SW-E	2	12/11/2017	--	--	<28.7	<28.7	<28.7	<28.7	1,590
SW-W	2	12/11/2017	--	--	<25.8	105	91.7	196	1,010
Diect Push Soil Samples									
DP-1	0 - 1	12/08/2017	<0.00109	<0.00761	<27.2	<27.2	<27.2	<27.2	<1.09
	1 - 2	12/08/2017	--	--	<28.7	<28.7	<28.7	<28.7	<1.15
	2 - 3	12/08/2017	--	--	<28.1	<28.1	<28.1	<28.1	<1.12
DP-2	0 - 1	12/08/2017	<0.00105	<0.00737	<26.3	<26.3	<26.3	<26.3	<1.05
	1 - 2	12/08/2017	--	--	<28.4	<28.4	<28.4	<28.4	<1.14
	2 - 3	12/08/2017	--	--	<28.7	<28.7	<28.7	<28.7	<1.15
	3 - 4	12/08/2017	--	--	<28.4	<28.4	<28.4	<28.4	74.1
	4 - 6	12/08/2017	--	--	<26.0	<26.0	<26.0	<26.0	114
	6 - 8	12/08/2017	--	--	<26.3	<26.3	<26.3	<26.3	375
	8 - 10	12/08/2017	--	--	<26.9	<26.9	<26.9	<26.9	573
	10 - 12	12/08/2017	--	--	<28.7	<28.7	<28.7	<28.7	789
	15	04/06/2018	--	--	--	--	--	--	551
	20	04/06/2018	--	--	--	--	--	--	997
	25	04/06/2018	--	--	--	--	--	--	735
DP-3	0 - 1	12/08/2017	<0.00114	<0.00454	<28.4	<28.4	<28.4	<28.4	48.2
	1 - 2	12/08/2017	--	--	<27.2	<27.2	<27.2	<27.2	54.1
	2 - 3	12/08/2017	--	--	<28.1	<28.1	<28.1	<28.1	6.47
	3 - 4	12/08/2017	--	--	<27.8	<27.8	<27.8	<27.8	4.00
	4 - 6	12/08/2017	--	--	<27.8	<27.8	<27.8	<27.8	58.1

Table 1
1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU B Satellite 13 Trunk Line
XTO Energy, Inc.

Sample	Depth (Feet)	Collection Date	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RRAL			10	50				100	600
DP-4	0 - 1	12/08/2017	<0.00106	<0.00744	<26.6	<26.6	<26.6	<26.6	19.0
	1 - 2	12/08/2017	--	--	<26.0	<26.0	<26.0	<26.0	2.11
	2 - 3	12/08/2017	--	--	<26.9	<26.9	<26.9	<26.9	41.2
	3 - 4	12/08/2017	--	--	<27.8	<27.8	<27.8	<27.8	84.9
DP-5	0 - 1	12/08/2017	<0.00105	<0.00737	<26.3	69.5	<26.3	69.5	172
	1 - 2	12/08/2017	--	--	<26.6	<26.6	<26.6	<26.6	444
	2 - 3	12/08/2017	--	--	<28.7	<28.7	<28.7	<28.7	1,450
	3 - 4	12/08/2017	--	--	<29.1	<29.1	<29.1	<29.1	1,510
	5	04/06/2018	--	--	--	--	--	--	1,510
	10	04/06/2018	--	--	--	--	--	--	923
	15	04/06/2018	--	--	--	--	--	--	970
	20	04/06/2018	--	--	--	--	--	--	813
	25	04/06/2018	--	--	--	--	--	--	985
DP-6	0 - 1	12/08/2017	<0.00104	<0.00728	<26.0	<26.0	<26.0	<26.0	98.1
	1 - 2	12/08/2017	--	--	<25.8	<25.8	<25.8	<25.8	27.9
	2 - 3	12/08/2017	--	--	<27.8	<27.8	<27.8	<27.8	108
	3 - 4	12/08/2017	--	--	<27.8	<27.8	<27.8	<27.8	562
	5	04/06/2018	--	--	--	--	--	--	11.1
	10	11/16/2018	--	--	--	--	--	--	703
	15	04/06/2018	--	--	--	--	--	--	102
	20	04/06/2018	--	--	--	--	--	--	6.34
	25	04/06/2018	--	--	--	--	--	--	685
DP-7	0 - 1	12/11/2017	<0.00105	<0.00737	<26.3	<26.3	<26.3	<26.3	<1.05
	1 - 2	12/11/2017	--	--	<28.1	<28.1	<28.1	<28.1	138
	2 - 3	12/11/2017	--	--	<30.1	<30.1	<30.1	<30.1	440
	3 - 4	12/11/2017	--	--	<29.4	<29.4	<29.4	<29.4	162
	4 - 6	12/11/2017	--	--	<30.9	<30.9	<30.9	<30.9	18.2
	6 - 8	12/11/2017	--	--	<28.4	<28.4	<28.4	<28.4	485
	8 - 10	12/11/2017	--	--	<28.1	<28.1	<28.1	<28.1	799
	10 - 12	12/11/2017	--	--	<29.1	<29.1	<29.1	<29.1	1,140
	15	04/24/2018	--	--	--	--	--	--	942
	20	04/24/2018	--	--	--	--	--	--	1,470
	25	04/24/2018	--	--	--	--	--	--	967
	30	04/24/2018	--	--	--	--	--	--	1,970
	35	04/24/2018	--	--	--	--	--	--	1,150
DP-8	0 - 1	12/11/2017	<0.00102	<0.00714	<25.5	<25.5	<25.5	<25.5	<1.02
	1 - 2	12/11/2017	--	--	<25.5	<25.5	<25.5	<25.5	<1.02
	2 - 3	12/11/2017	--	--	<27.2	<27.2	<27.2	<27.2	5.38

1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU B Satellite 13 Trunk Line
XTO Energy, Inc.

Sample	Depth (Feet)	Collection Date	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RRAL			10	50				100	600
	3 - 4	12/11/2017	--	--	<28.4	<28.4	<28.4	<28.4	9.47
DP-9	0	04/24/2018	--	--	--	--	--	--	9.12
	5	04/24/2018	--	--	--	--	--	--	<1.08
	10	04/24/2018	--	--	--	--	--	--	69.8
	15	04/24/2018	--	--	--	--	--	--	157
	20	04/24/2018	--	--	--	--	--	--	174
	25	04/24/2018	--	--	--	--	--	--	436
	30	04/24/2018	--	--	--	--	--	--	404
	35	04/24/2018	--	--	--	--	--	--	171
DP-10	0	04/24/2018	--	--	--	--	--	--	44.3
	5	04/24/2018	--	--	--	--	--	--	6.11
	10	04/24/2018	--	--	--	--	--	--	855
	15	04/24/2018	--	--	--	--	--	--	464
	20	04/24/2018	--	--	--	--	--	--	907
	25	04/24/2018	--	--	--	--	--	--	730
	30	04/24/2018	--	--	--	--	--	--	707
	35	04/24/2018	--	--	--	--	--	--	149
DP-11	0	04/24/2018	--	--	--	--	--	--	5.16
	5	04/24/2018	--	--	--	--	--	--	70.4
	10	04/24/2018	--	--	--	--	--	--	703
	15	04/24/2018	--	--	--	--	--	--	754
	20	04/24/2018	--	--	--	--	--	--	1,290
	25	04/24/2018	--	--	--	--	--	--	784
	30	04/24/2018	--	--	--	--	--	--	457
	35	04/24/2018	--	--	--	--	--	--	1,770
DP-12	0	04/24/2018	--	--	--	--	--	--	8.86
	5	04/24/2018	--	--	--	--	--	--	3.4
	10	04/24/2018	--	--	--	--	--	--	255
	15	04/24/2018	--	--	--	--	--	--	1,040
	20	04/24/2018	--	--	--	--	--	--	872
	25	04/24/2018	--	--	--	--	--	--	1,110
	30	04/24/2018	--	--	--	--	--	--	1,460
	35	04/24/2018	--	--	--	--	--	--	2,120
DP-13	0	04/24/2018	--	--	--	--	--	--	23.9
	5	04/24/2018	--	--	--	--	--	--	451
	10	04/24/2018	--	--	--	--	--	--	275
	15	04/24/2018	--	--	--	--	--	--	327
	20	04/24/2018	--	--	--	--	--	--	513

Table 1
1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU B Satellite 13 Trunk Line
XTO Energy, Inc.

Sample	Depth (Feet)	Collection Date	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RRAL			10	50				100	600
	25	04/24/2018	--	--	--	--	--	--	863
	30	04/24/2018	--	--	--	--	--	--	2,500
	35	04/24/2018	--	--	--	--	--	--	290

Notes: Laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas by EPA SW-846 Method 8015M (TPH) and Method 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

*: OCD delineation level

Denotes concentration exceeds RRAL (100 mg/Kg)

Denotes concentration exceeds OCD delineation level (250 mg/Kg)

Table 2
1RP-4832
Monitoring Well Completion and Gauging Summary
XTO Energy, Inc., EMSU B Satellite #13 Trunk Line
Lea County, New Mexico
N32° 34' 32.79" W103° 19' 19.06"

Well Information							Gauging Data		
Well ID	Date Drilled	Drilled Depth (feet bgs)	Well Depth (feet TOC)	Well Diameter (inches)	Screen Interval (feet bgs)	Casing Stickup (feet)	Date	Depth to Water (TOC)	Depth to Water (bgs)
TMW-1	12/28/2018	47.64	50.60	2	27.46 - 47.14	2.96	12/28/2018	39.51	36.55
							01/02/2019	39.50	36.54
TMW-2	12/28/2018	47.67	50.65	2	27.44 - 47.17	2.98	12/28/2018	39.98	37.00
							01/02/2019	40.00	37.02

Notes: well drilled and completed by Scarborough Drilling, Inc., Lamesa, Texas, and using constructed with 2-inch threaded schedule 40 PVC casing and screen

All values are in feet, unless otherwise noted.

bgs - below ground surface

TOC - top of casing

Table 3
1RP-4832 and 1RP-5340
Groundwater Sample Organic and Inorganic Analytical data Summary
EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc.
Lea County, New Mexico

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride
NMWQCC Limit:		0.01	0.75	0.75	0.62	250
TMW-1	01/02/2019	<0.0008	<0.002	<0.002	<0.002	637
TMW-2	01/02/2019	<0.0008	<0.002	<0.002	<0.002	4,260

Notes: analysis performed by DHL Analytical, Round Rock, Texas by EPA SW-846 Method 8021B (BTEX) and Method 300 (chloride)

All values reported in milligrams per Liter - (mg/L) equivalent to parts per million (ppm).

Bold and highlighted denotes analyte reported at concentration above NMWQCC domestic water quality limit

1RP-4832

Remediation Confirmation Soil Sample Analytical Data Summary

XTO Energy, Inc., EMSU Satellite #13 Produced Water Spill

Latitude: 32.575775° Longitude: -103.321961°

Lea County, New Mexico

Page 1 of 4

Location	Sample	Location	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Limit:						10	50				100	600
Excavation Samples												
HA-1	S-1	North (side)	6	11/30/2018	Excavated	--	--	<27.8	30.8	<27.8	30.8	1,020
		North (side)	6	12/05/2018	Excavated	<0.00110	<0.05	<27.5	<27.5	<27.5	<27.5	890
		North (side)	6	12/13/2018	Excavated	<0.00105	<0.5	477	509	<26.3	986	892
		Refer to Table 2A										
		North (side)	10	12/05/2018	Excavated	<0.00109	<0.03803	<27.2	<27.2	<27.2	<27.2	660
	S-2	North (side)	10	12/13/2018	Excavated	<0.00110	<0.03803	<27.5	<27.5	<27.5	<27.5	821
		Refer to Table 2A										
		East (side)	6	11/30/2018	In-Situ	--	--	<28.4	<28.4	<28.4	<28.4	526
		East (side)	10	12/05/2018	In-Situ	<0.00112	<0.05164	<28.1	56.0	<28.1	56.0	344
	S-3	South (side)	6	11/30/2018	Excavated	--	--	30.0	754	140	924	111
		South (side)	6	12/05/2018	In-Situ	<0.00108	<0.04956	<26.9	38.5	<26.9	38.5	119
		South (side)	10	12/05/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	96.1
	S-4	West (side)	6	11/30/2018	Excavated	--	--	<27.5	38.8	<27.5	38.8	40.1
		West (side)	10	12/05/2018	Excavated	<0.0211	<0.9681	<26.3	937	176	1,113	464
		West (side)	10	12/13/2018	In-Situ	<0.00111	<0.9681	<27.8	36.30	<27.8	36.30	1,110
	S-5	Northwest (side)	2	11/30/2018	Excavated	--	--	<26.3	<26.3	<26.3	<26.3	1,250
		Northwest (side)	2	12/05/2018	In-Situ	<0.00114	<0.05232	<28.4	<28.4	<28.4	<28.4	327
	S-6	Southwest (side)	2	11/30/2018	In-Situ	--	--	<25.3	<25.3	<25.3	<25.3	351
	S-7	Southeast (side)	2	12/04/2018	In-Situ	<0.00101	<0.04646	<25.3	<25.3	<25.3	<25.3	40.8
	S-8	Southeast (side)	2	12/04/2018	In-Situ	<0.00101	<0.04646	<25.3	<25.3	<25.3	<25.3	491
	S-9	South (side)	2	12/04/2018	Excavated	<0.00111	<0.05087	<27.8	<27.8	<27.8	<27.8	4,680
				12/13/2018	In-Situ	<0.00111	<0.05087	<27.8	<27.8	<27.8	<27.8	703
	S-10	Southwest (side)	2	12/04/2018	In-Situ	<0.00102	<0.04692	<25.5	<25.5	<25.5	<25.5	33.0
	S-11	Southwest (side)	2	12/04/2018	In-Situ	<0.00103	<0.04738	<25.8	<25.8	<25.8	<25.8	432
	S-12	Southwest (side)	2	12/04/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	5.27
	S-13	West (side)	2	12/04/2018	Excavated	<0.00108	<0.04956	<26.9	<26.9	<26.9	<26.9	761
		West (side)	2	12/13/2018	In-Situ	<0.00110	<0.04956	<27.5	<27.5	<27.5	<27.5	142
	S-14	Northwest (side)	2	12/04/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	<1.06
	S-15	Northwest (side)	2	12/04/2018	In-Situ	<0.00100	<0.046	<25.0	<25.0	<25.0	<25.0	<1.00
	S-16	Northwest (side)	2	12/04/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	<1.06

Table 4

1RP-4832

Remediation Confirmation Soil Sample Analytical Data Summary

XTO Energy, Inc., EMSU Satellite #13 Produced Water Spill

Latitude: 32.575775° Longitude: -103.321961°

Lea County, New Mexico

Page 2 of 4

Location	Sample	Location	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Limit:						10	50				100	600
	S-17	North (side)	2	12/04/2018	In-Situ	<0.00105	<0.04841	<26.3	<26.3	<26.3	<26.3	30.0
	S-18	Northeast (side)	2	12/04/2018	In-Situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	292
	S-19	Northeast (side)	2	12/04/2018	In-Situ	<0.00100	<0.046	<25.0	<25.0	<25.0	<25.0	43.7
	S-20	North (bottom)	12	12/05/2018	In-Situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	445
	S-21	North (side)	10	1/8/2019	In-Situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	445
DP-2	DP-2	North (side)	2	11/16/2018	In-Situ	<0.00110	<0.05	<27.5	<27.5	<27.5	<27.5	1.82
		East (side)	2	11/16/2018	In-Situ	<0.00116	<0.05347	<291.	<29.1	<29.1	<29.1	1.24
		South (side)	2	11/16/2018	In-Situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	4.24
		West (side)	2	11/16/2018	In-Situ	<0.00112	<0.05164	<28.1	<28.1	<28.1	<28.1	5.42
DP-6	DP-6	North (side)	2	11/16/2018	In-Situ	<0.00103	<0.04738	<25.8	<25.8	<25.8	<25.8	15.5
		East (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	125
		South (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	2.61
		West (side)	2	11/16/2018	In-Situ	<0.00105	<0.04841	<26.3	<26.3	<26.3	<26.3	15.1
DP-7	DP-7	North (side)	2	11/16/2018	In-Situ	<0.00114	<0.05232	<28.4	<28.4	<28.4	<28.4	<1.14
		East (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	425
		South (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	<1.06
		West (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	6.03
DP-9	DP-9	North (side)	2	11/16/2018	In-Situ	<0.00111	<0.05087	<27.8	<27.8	<27.8	<27.8	<1.11
		East (side)	2	11/16/2018	In-Situ	<0.00119	<0.05474	<29.8	46.9	29.8	76.7	<1.19
		South (side)	2	11/16/2018	In-Situ	<0.00116	<0.05347	<29.1	<29.1	<29.1	<29.1	2.64
		West (side)	2	11/16/2018	In-Situ	<0.00116	<0.05347	<29.1	<29.1	<29.1	<29.1	<1.16
DP-10	DP-10	North (side)	2	11/16/2018	In-Situ	<0.00106	<0.04888	<26.6	<26.6	<26.6	<26.6	<1.06
		East (side)	2	11/16/2018	In-Situ	<0.00109	<0.03803	<27.2	<27.2	<27.2	<27.2	<1.09
		South (side)	2	11/16/2018	In-Situ	<0.00108	<0.04956	<26.9	<26.9	<26.9	<26.9	<1.08
		West (side)	2	11/16/2018	In-Situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	<1.04

1RP-4832

Remediation Confirmation Soil Sample Analytical Data Summary

XTO Energy, Inc., EMSU Satellite #13 Produced Water Spill

Latitude: 32.575775° Longitude: -103.321961°

Lea County, New Mexico

Page 3 of 4

Location	Sample	Location	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Limit:						10	50				100	600
DP-11	DP-11	North (side)	2	11/16/2018	In-Situ	<0.00110	<0.05	<27.5	<27.5	<27.5	<27.5	<1.10
		East (side)	2	11/16/2018	In-Situ	<0.00112	<0.05164	<28.1	<28.1	<28.1	<28.1	<1.12
		South (side)	2	11/16/2018	In-Situ	<0.00114	<0.05232	<28.4	<28.4	<28.4	<28.4	1.35
		West (side)	2	11/16/2018	In-Situ	<0.00114	<0.05232	<28.4	<28.4	<28.4	<28.4	<1.14
DP-12	DP-12	North (side)	2	11/16/2018	In-Situ	<0.00119	<0.05474	<29.8	<29.8	<29.8	<29.8	<1.19
		East (side)	2	11/16/2018	In-Situ	<0.00118	<0.05416	<29.4	<29.4	<29.4	<29.4	<1.18
		South (side)	2	11/16/2018	In-Situ	<0.00109	<0.03803	<27.2	<27.2	<27.2	<27.2	<1.09
		West (side)	2	11/16/2018	In-Situ	<0.00111	<0.05087	<27.8	<27.8	<27.8	<27.8	<1.11
DP-13	DP-13	North (side)	2	11/16/2018	In-Situ	<0.00108	<0.04956	<26.9	<26.9	<26.9	<26.9	56.1
		East (side)	2	11/16/2018	In-Situ	<0.00109	<0.05002	<27.2	<27.2	<27.2	<27.2	54.1
		South (side)	2	11/16/2018	In-Situ	<0.00108	<0.04956	<26.9	<26.9	<26.9	<26.9	2.49
		West (side)	2	11/16/2018	In-Situ	<0.00109	<0.05002	<27.2	<27.2	<27.2	<27.2	23.8

Notes: analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH) and 300 (chloride).

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Analyte concentration exceeds TPH closure criteria (Table) of 19.15.29 NMAC

Analyte concentration exceeds chloride closure criteria (Table) of 19.15.29 NMAC

Table 4a
1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU Satellite #13 Produced Water Spill, XTO Energy, Inc.
Latitude: 32.575775° Longitude: -103.321961°
Lea County, New Mexico

Page 1 of 3

Sample	Depth (Feet)	Position	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	
RRAL					10	50	100					600
Excavation Soil Samples												
T-1	4.5	Bottom (W)	01/08/2019	Excavated	<0.00120	<0.05532	<30.1	<30.1	<30.1	<30.1	1,390	
T-2	4.5	Bottom (W)	01/08/2019	Excavated	<0.00112	<0.05164	<28.1	39.9	<28.1	39.9	1,110	
T-3	10.5	Bottom (W)	01/08/2019	Excavated	<0.00118	0.1111	66.2	337	52.1	455.3	1,200	
S-1	4	Bottom	03/04/2019	In-situ	<0.00110	<0.0066	<27.5	<27.5	<27.5	<27.5	1,220	
S-2	5	Bottom	03/04/2019	Excavated	<0.0233	<0.05582	<29.1	332	48.7	380.7	2,960	
	6	Bottom	03/08/2019	Excavated	--	--	<27.8	104	<27.8	104	1,050	
	6.5	Bottom	05/08/2029	In-situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	432	
	3	Sidewall (N)	05/08/2029	In-situ	<0.00103	<0.00618	<25.8	72.3	<25.8	72.3	166	
	3	Sidewall (S)	05/08/2029	In-situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	2.23	
	3	Sidewall (W)	05/08/2029	In-situ	<0.00110	<0.0066	<27.5	<27.5	<27.5	<27.5	2.76	
S-3	4	Bottom	03/04/2019	In-situ	<0.00122	<0.00732	<30.5	116	<30.5	116	1,260	
S-4	4	Bottom	03/04/2019	In-situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	1,710	
S-5	4	Bottom	03/04/2019	In-situ	<0.00112	<0.00673	<28.1	<28.1	<28.1	<28.1	2,430	
S-6	4	Bottom	03/04/2019	In-situ	<0.00119	<0.00714	<29.8	36.9	<29.8	36.9	2,650	
S-7	6	Bottom	03/04/2019	Excavated	<0.0222	<0.1332	244	4,100	580	4,924	1,210	
	7	Bottom	03/08/2019	Excavated	--	--	54.5	89.3	<28.1	543.8	1,330	
	12	Bottom	05/08/2019	Excavated	<0.00116	<0.00697	<29.1	<29.1	<29.1	<29.1	1,420	
	17	Bottom	05/13/2019	In-situ	--	--	<36.8	<36.8	<36.8	<36.8	--	
	6	Sidewall (S)	05/08/2019	In-situ	<0.00112	<0.00673	<28.1	<28.1	<28.1	<28.1	1,100	
	9	Sidewall (S)	05/13/2019	In-situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	1,250	
	6	Sidewall (N)	05/08/2019	In-situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	1,080	

Table 4a
1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU Satellite #13 Produced Water Spill, XTO Energy, Inc.
Latitude: 32.575775° Longitude: -103.321961°
Lea County, New Mexico

Page 2 of 3

Sample	Depth (Feet)	Position	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	
RRAL					10	50	100					600
S-8	6	Sidewall (W)	05/13/2019	In-situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	1,240	
	9	Sidewall (N)	05/13/2019	In-situ	<0.00110	<0.0066	<27.5	<27.5	<27.5	<27.5	765	
	10	Bottom	03/04/2019	Excavated	<0.0230	4.077	2,290	10,100	1,620	14,010	1,010	
	11	Bottom	03/08/2019	Excavated	--	--	79.5	696	102	877.5	477	
	12	Bottom	03/08/2019	Excavated	--	--	<29.4	72.5	<29.4	72.5	826	
	13	Bottom	05/08/2019	In-situ	<0.00147	<0.00882	<36.8	<36.8	<36.8	<36.8	521	
	6.5	Sidewall (N)	05/08/2019	In-situ	<0.00147	0.00191	<36.8	<36.8	<36.8	<36.8	606	
	6.5	Sidewall (S)	05/08/2019	In-situ	<0.00137	<0.00795	<34.2	<34.2	<34.2	<34.2	590	
S-9	11	Bottom	03/04/2019	Excavated	0.332	21.532	5,570	13,100	2,440	21,110	1,490	
	12	Bottom	03/08/2019	Excavated	--	--	1,180	2,840	479	4,499	1,150	
	13	Bottom	03/08/2019	Excavated	--	--	92.3	205	38.1	335.4	810	
	18	Bottom	05/07/2019	In-situ	<0.00111	<0.00555	<27.8	<27.8	<27.8	<27.8	727	
	9	Sidewall (E)	05/07/2019	In-situ	<0.00111	<0.00555	<27.8	61.0	<27.8	61.0	1,120	
	9	Sidewall (W)	05/07/2019	In-situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	659	
S-10	11	Bottom	03/04/2019	Excavated	0.118	7.925	1,720	5,640	943	8,303	1,840	
	12	Bottom	03/08/2019	Excavated	--	--	533	1,100	186	1,819	888	
	13	Bottom	03/08/2019	Excavated	--	--	30.2	41.5	<29.4	71.7	1,780	
	16	Bottom	05/09/2019	In-situ	<0.00110	<0.0066	<27.5	<27.5	<27.5	<27.5	926	
	8	Sidewall (S)	05/09/2019	In-situ	<0.00111	<0.00555	<27.8	<27.8	<27.8	<27.8	960	
	8	Sidewall (W)	05/09/2019	In-situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	1,290	
	8	Sidewall (N)	05/09/2019	In-situ	<0.00111	<0.00555	<27.8	<27.8	<27.8	<27.8	1,640	
	S-11	12	Bottom	03/04/2019	Excavated	<0.0241	4.597	1,400	5,130	902	7,432	1,750
13		Bottom	03/08/2019	Excavated	--	--	304	1,070	164	1,538	1,580	
16		Bottom	03/08/2019	Excavated	--	--	1,010	3,470	530	5,010	2,190	
18		Bottom	05/09/2019	In-situ	<0.00111	<0.00555	<27.8	<27.8	<27.8	<27.8	449	

Table 4a
1RP-4832 and 1RP-5340
Delineation Soil Sample Analytical Data Summary
EMSU Satellite #13 Produced Water Spill, XTO Energy, Inc.
Latitude: 32.575775° Longitude: -103.321961°
Lea County, New Mexico

Page 3 of 3

Sample	Depth (Feet)	Position	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	
RRAL							10	50	100			600
S-12	11	Bottom	03/04/2019	Excavated	<0.238	3.292	3,060	18,800	2,830	24,690	1,910	
	12	Bottom	03/08/2019	Excavated	--	--	164	1,290	189	1,643	1,720	
	13	Bottom	03/08/2019	Excavated	--	--	<32.9	57.3	<32.9	57.3	2,470	
	14	Bottom	05/08/2019	In-situ	<0.00116	<0.00697	<29.1	<29.1	<29.1	<29.1	274	
	7	Sidewall (N)	05/08/2019	In-situ	<0.00137	<0.00822	<34.2	<34.2	<34.2	<34.2	1,800	
S-13	10	Bottom	03/04/2019	Excavated	<0.00109	<0.00109	<27.2	457	63.3	520.3	1,090	
	11	Bottom	03/08/2019	Excavated	--	--	<30.1	<30.1	<30.1	<30.1	477	
	11	Bottom	05/08/2019	Excavated	<0.00116	<0.00697	<29.1	<29.1	<29.1	<29.1	972	
	12	Bottom	03/08/2019	In-situ	--	--	<29.1	<29.1	<29.1	<29.1	1,120	
S-14	10	Bottom	03/04/2019	Excavated	<0.00109	<0.00109	<27.2	237	38.0	275	972	
	11	Bottom	03/08/2019	In-situ	--	--	<27.2	<27.2	<27.2	<27.2	809	
	11	Bottom	05/08/2019	In-situ	<0.00115	<0.0069	<28.7	<28.7	<28.7	<28.7	1,020	
	5.5	Sidewall (N)	05/08/2019	In-situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	630	
	5.5	Sidewall (S)	05/08/2019	In-situ	<0.0143	<0.09152	<357	<357	<357	<357	3,450	
	5.5	Sidewall (E)	05/08/2019	In-situ	<0.00128	<0.00768	<32.1	<32.1	<32.1	<32.1	41.1	

Notes: analysis performed by Permian Basin Laboratory, Midland, Texas by EPA SW-846 Methods 80121B (BTEX), 8015M (TPH) and 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Highlighted denotes concentration exceeds TPH closure criteria standard (Table 1 19.15.29 NMAC)

Highlighted denotes concentration exceeds chloride closure criteria standard (Table 1 19.15.29 NMAC)

<27.8

1RP-4832 and 1RP-5340
Backfill Soil Sample Analytical Data Summary
EMSU Satellite #13 Produced Water Leak, XTO Energy, Inc.,
Latitude: 32.575775° Longitude: -103.321961°
Lea County, New Mexico

Sample	Collection Date	Status	Chloride (mg/Kg)
RRAL			600
Backfill Caliche 1	6/4/19	In-Situ	7.95
Backfill Caliche 2	6/4/19	In-Situ	4.74
Backfill Caliche 3	6/4/19	In-Situ	<1.27
Backfill Caliche 4	6/4/19	In-Situ	<1.22
Backfill Caliche 5	6/4/19	In-Situ	1.23
Backfill Caliche 6	6/4/19	In-Situ	3.99
Backfill Caliche 7	6/4/19	In-Situ	11.6
Backfill Caliche 8	6/4/19	In-Situ	5.40
Backfill Caliche 9	6/4/19	In-Situ	2.64
Backfill Caliche 10	6/4/19	In-Situ	<1.12
Backfill Caliche 11	6/4/19	In-Situ	3.43
Backfill Caliche 12	6/4/19	In-Situ	<1.15
Backfill Caliche 13	6/4/19	In-Situ	2.04
Backfill Caliche 14	6/4/19	In-Situ	1.68
Backfill Caliche 15	6/4/19	In-Situ	2.77
Backfill Caliche 16	6/4/19	In-Situ	2.80
Backfill Topsoil 1	6/4/19	In-Situ	1.53
Backfill Topsoil 2	6/4/19	In-Situ	1.69
Backfill Topsoil 3	6/4/19	In-Situ	<1.15
Backfill Topsoil 4	6/4/19	In-Situ	1.24
Backfill Topsoil 5	6/4/19	In-Situ	3.68

Notes: analysis performed by Permian Basin Laboratory, Midland, Texas by EPA Method 300
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Tables

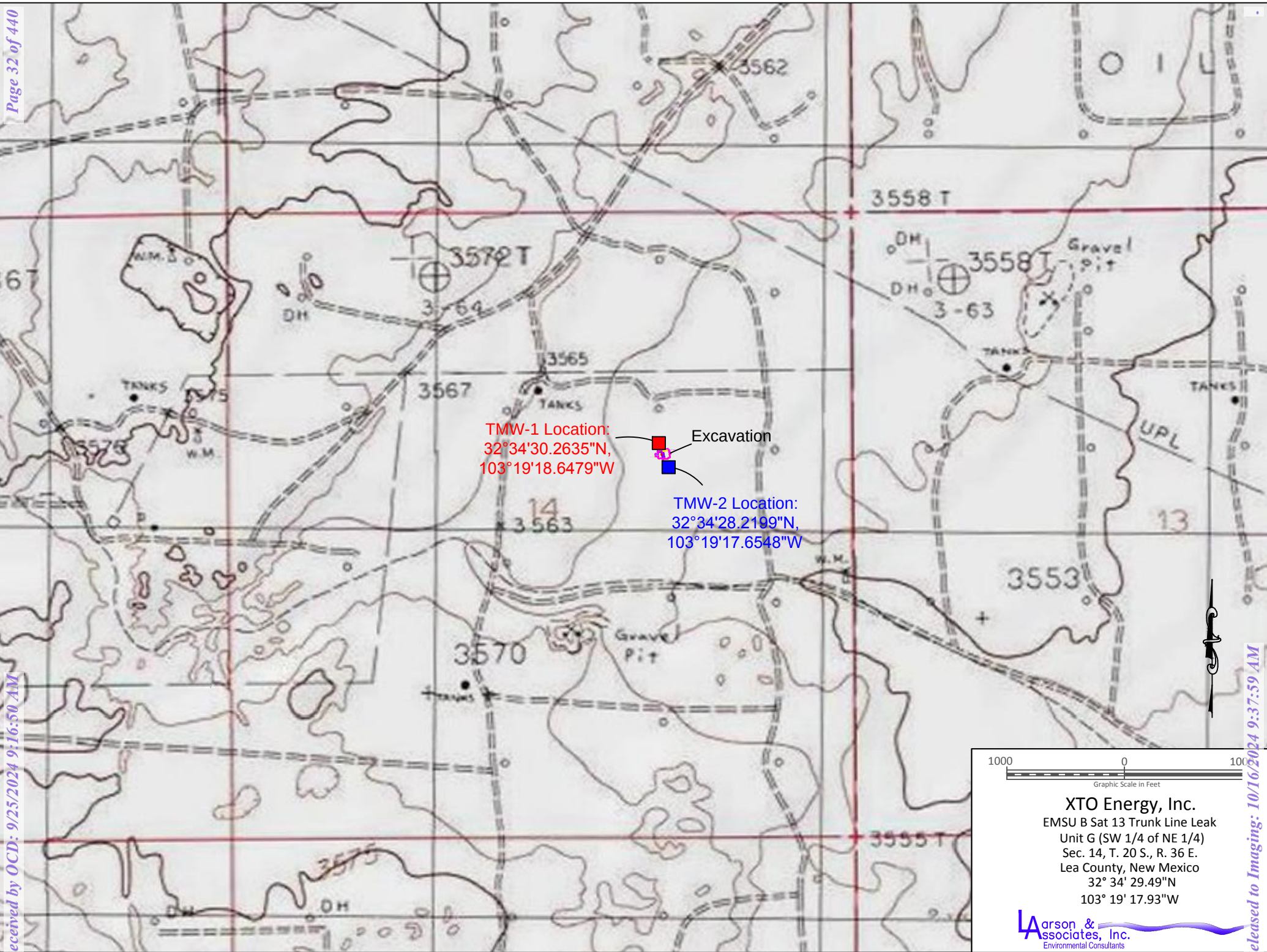
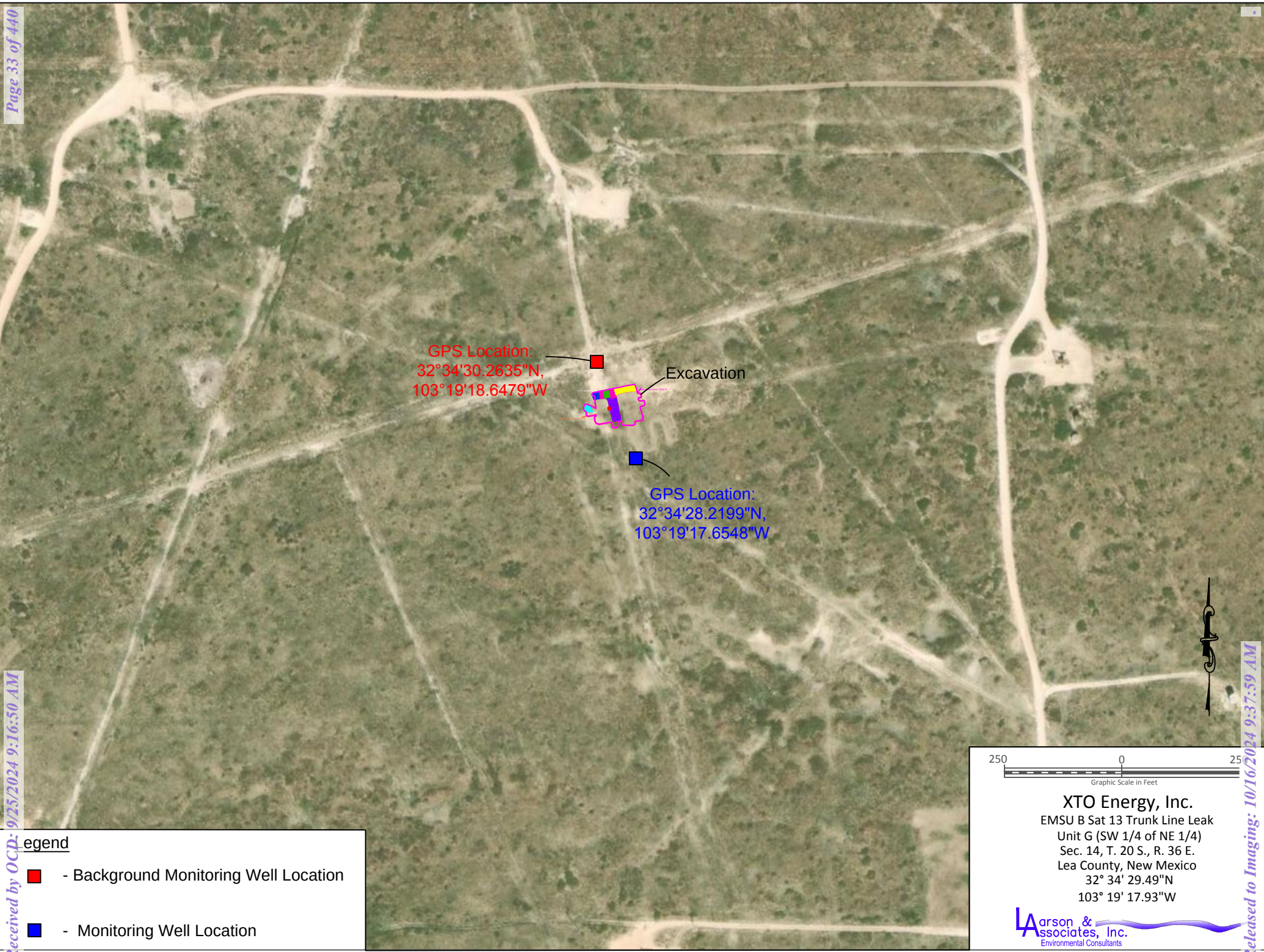


Figure 1 - Topographic Map Showing Monitoring Well Locations

1000 0 1000
Graphic Scale in Feet

XTO Energy, Inc.
 EMSU B Sat 13 Trunk Line Leak
 Unit G (SW 1/4 of NE 1/4)
 Sec. 14, T. 20 S., R. 36 E.
 Lea County, New Mexico
 32° 34' 29.49"N
 103° 19' 17.93"W

Larson & Associates, Inc.
 Environmental Consultants



Legend

- - Background Monitoring Well Location
- - Monitoring Well Location



XTO Energy, Inc.
EMSU B Sat 13 Trunk Line Leak
Unit G (SW 1/4 of NE 1/4)
Sec. 14, T. 20 S., R. 36 E.
Lea County, New Mexico
32° 34' 29.49"N
103° 19' 17.93"W

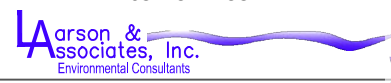
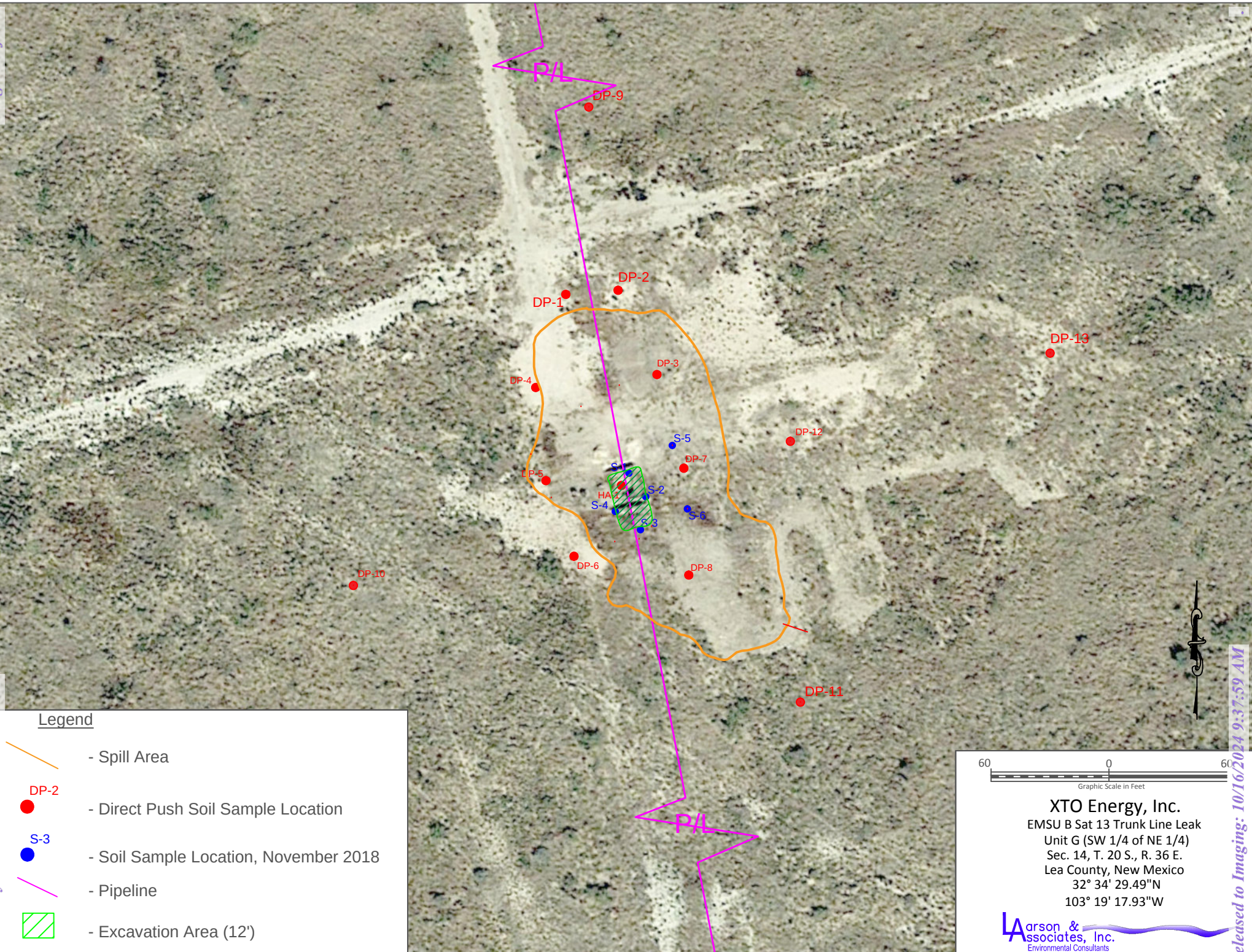


Figure 2 - Aerial Map



Legend

- Spill Area
- DP-2 - Direct Push Soil Sample Location
- S-3 - Soil Sample Location, November 2018
- Pipeline
- Excavation Area (12')



XTO Energy, Inc.
EMSU B Sat 13 Trunk Line Leak
Unit G (SW 1/4 of NE 1/4)
Sec. 14, T. 20 S., R. 36 E.
Lea County, New Mexico
32° 34' 29.49"N
103° 19' 17.93"W

Larson & Associates, Inc.
Environmental Consultants

Figure 3 - Aerial Map Showing Delineation Soil Sample Locations and Excavation

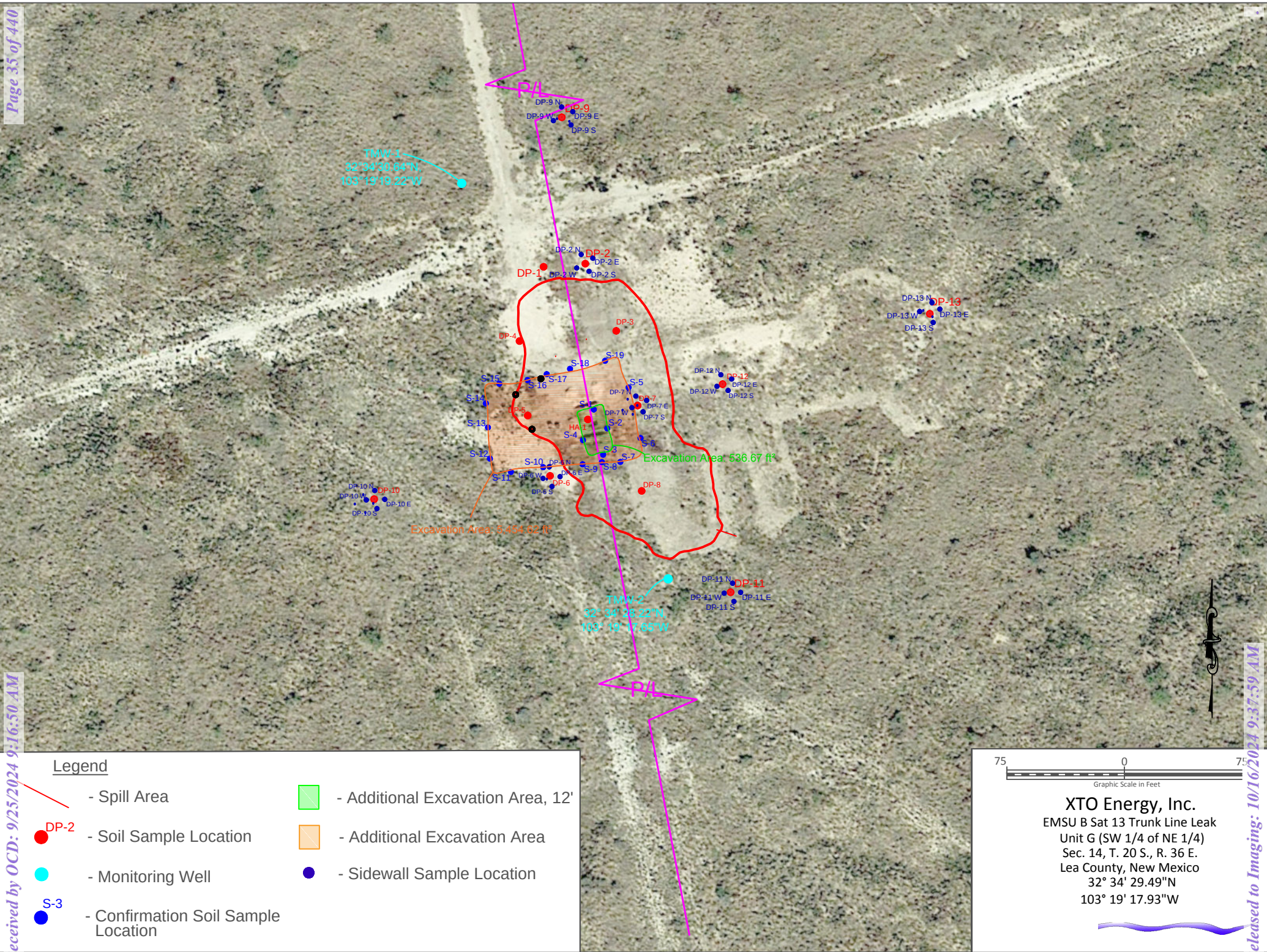


Figure 4 - Aerial Map Showing Excavation Areas and Confirmation Sample Locations

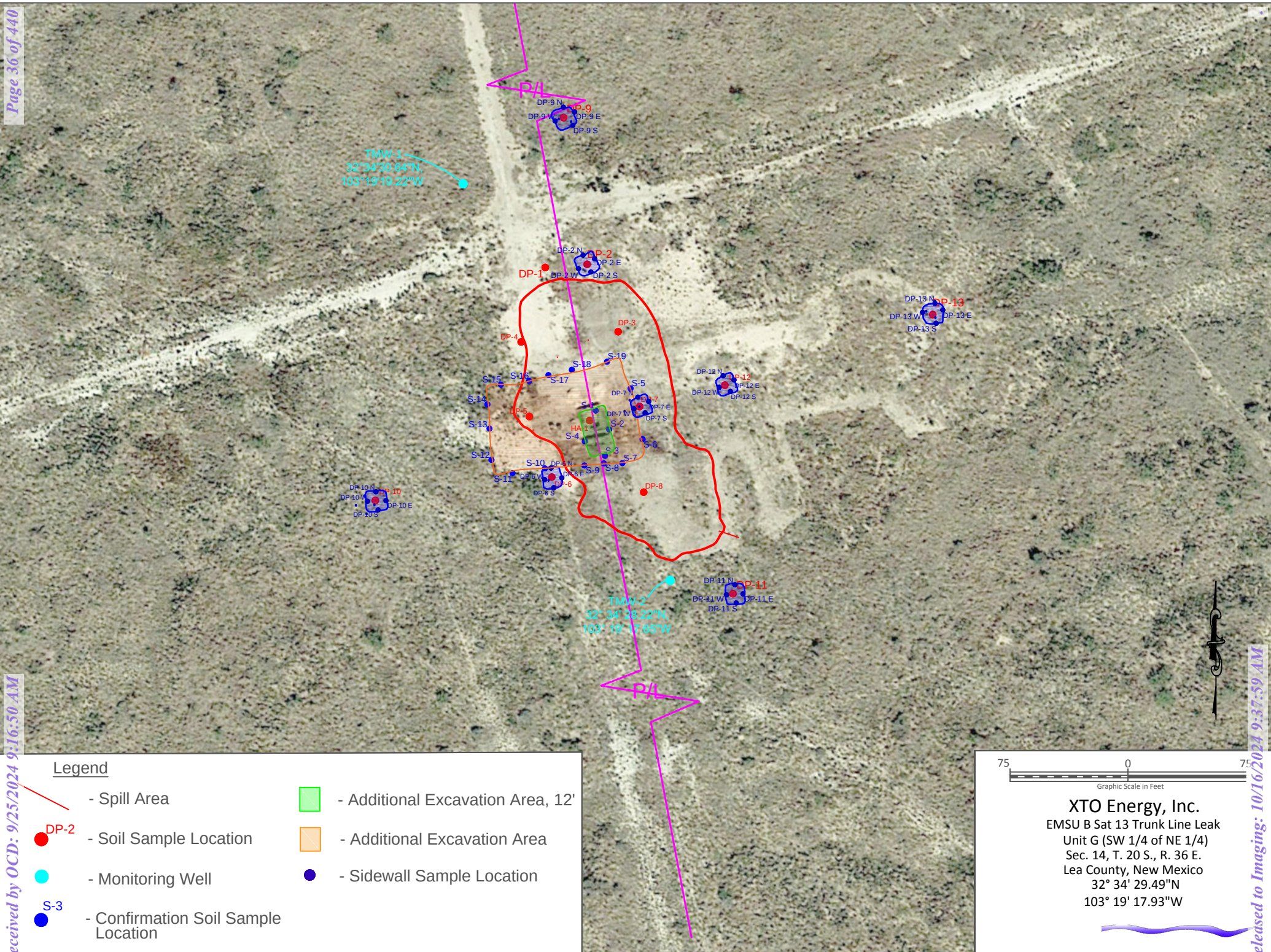
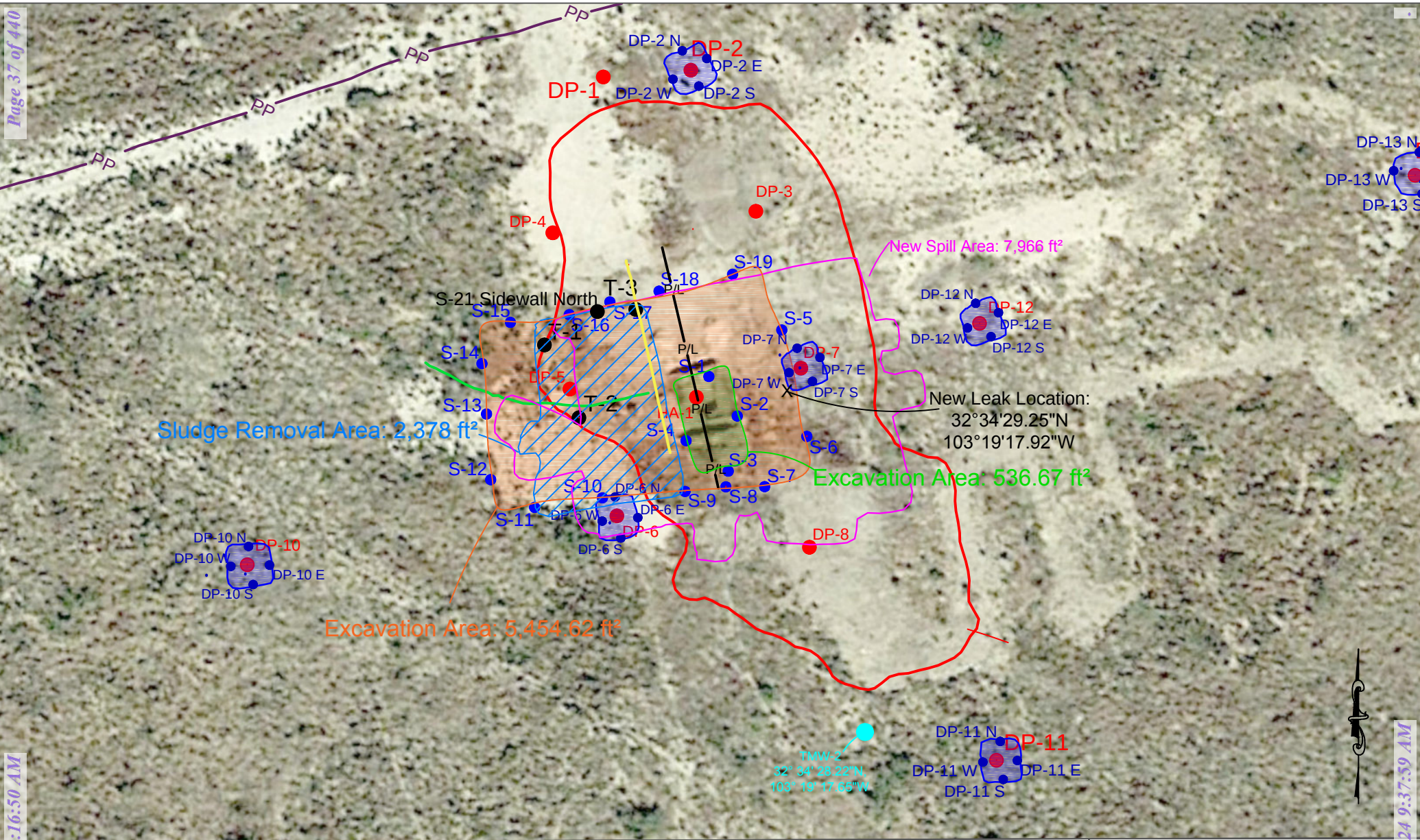


Figure 4 - Aerial Map Showing Excavation Areas and Confirmation Sample Locations



Legend

- | | | | | | |
|--|------------------------------------|--|---|--|-------------------------|
| | - Spill Area | | S-3 - Confirmation Soil Sample Location | | - Sludge Removal Area |
| | - Excavation Area January, 09 2019 | | - Excavation Area | | - Petroleum Pipeline |
| | DP-2 - Soil Sample Location | | - Additional Excavation Area, 12' | | - Damaged Injecion Line |
| | - Monitoring Well | | - Additional Excavation Area | | - White 8" Line |
| | - Exposed Pipeline | | - Sidewall Sample Location | | - New Leak Location |

40 0 40
Graphic Scale in Feet

XTO Energy, Inc.
EMSU B Sat 13 Trunk Line Leak
Unit G (SW 1/4 of NE 1/4)
Sec. 14, T. 20 S., R. 36 E.
Lea County, New Mexico
32° 34' 29.49"N
103° 19' 17.93"W

Figure 5 - Aerial Map Showing Excavation and New Spill Area

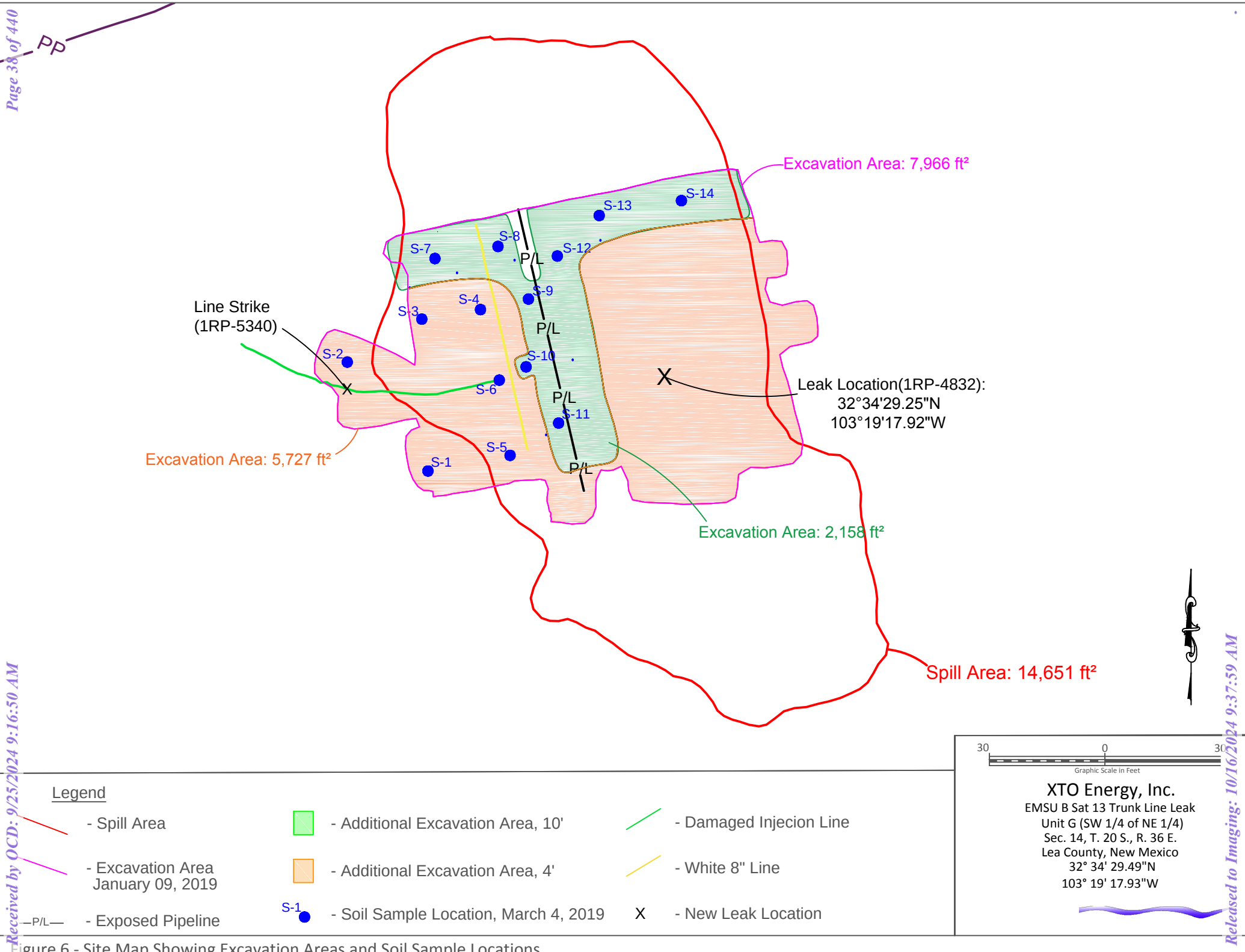
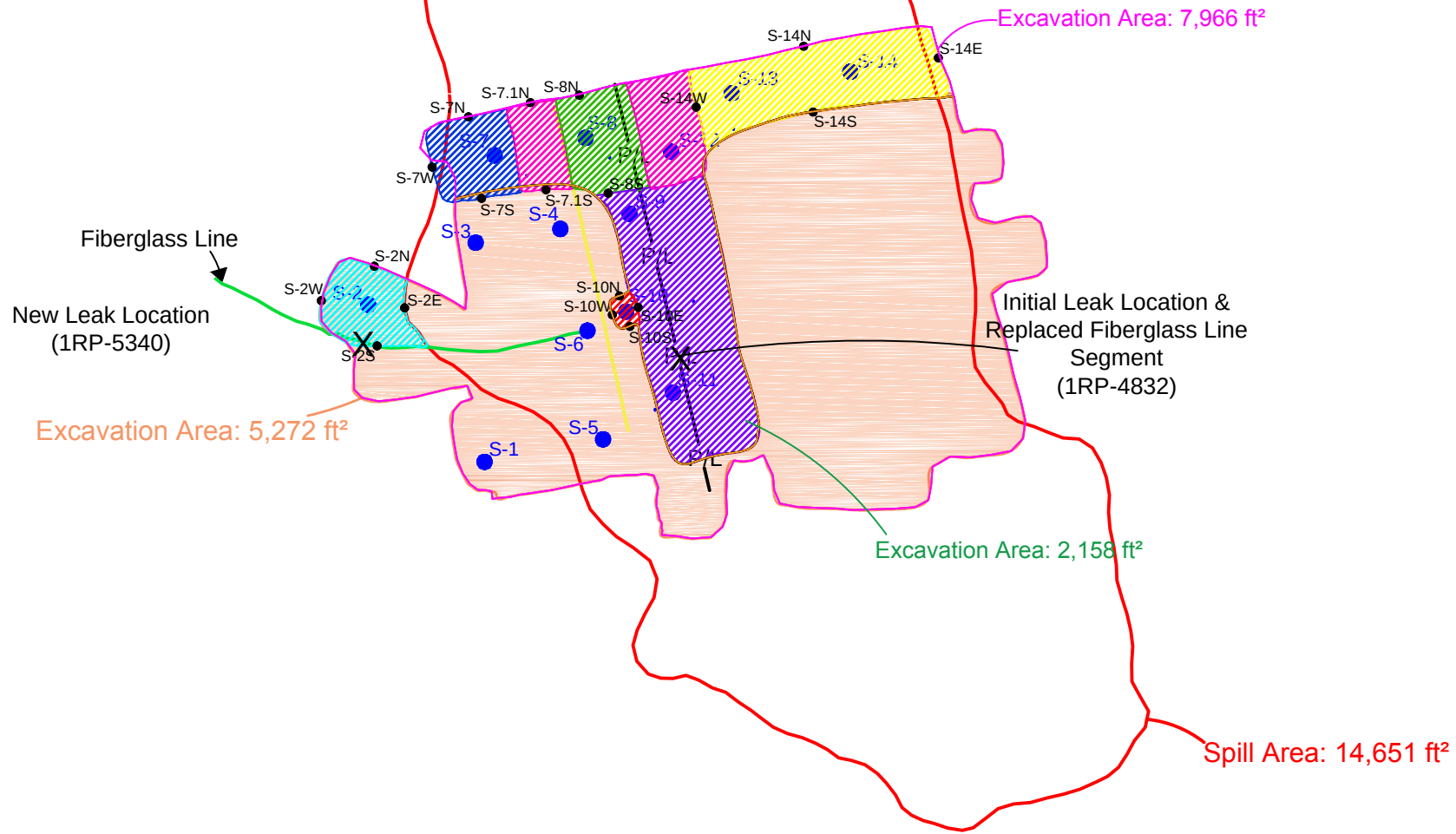


Figure 6 - Site Map Showing Excavation Areas and Soil Sample Locations

PP



Legend

- - Spill Area
- - Excavation Area January 09, 2019
- - Exposed Pipeline
- - Additional Excavation Area: 4'
- ▨ - Excavation Area: 6.5'
- ▨ - Excavation Area: 11'
- ▨ - Excavation Area: 13'
- ▨ - Excavation Area: 14'
- ▨ - Excavation Area: 16'
- ▨ - Excavation Area: 17'
- ▨ - Excavation Area: 18'
- S-1 - Soil Sample Location, March 4, 2019
- - Fiberglass Line
- - White 8" Line
- S-2N - Sidewall Sample, May 13, 2019
- X - Leak Location



XTO Energy, Inc.
 EMSU B Sat 13 Trunk Line Leak
 Unit G (SW 1/4 of NE 1/4)
 Sec. 14, T. 20 S., R. 36 E.
 Lea County, New Mexico
 32° 34' 29.49"N
 103° 19' 17.93"W

Figure 7 - Site Map Showing Excavation Areas and Soil Sample Locations

Appendix A

C-141

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: XTO ENERGY INC.	Contact SHANNON WALKER
Address: 500 W. ILLINOIS SUITE 100 MIDLAND, TX 79701	Telephone No. 575-394-2089
Facility Name: EMSU B Satellite #13	Facility Type: Satellite
Surface Owner: Jimmie T. Cooper	Mineral Owner: BLM
API No. N/A	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	14	20S	36E					

Latitude 32° 34' 32.79"N Longitude 103° 19' 19.06"W NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 34.06bbls	Volume Recovered: 0bbls
Source of Release: 4" FG Trunk line	Date and Hour of Occurrence: 09/20/2017	Date and Hour of Discovery 09/20/2017 @ 12:30 MT
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Olivia Yu	
By Whom? Shannon Walker	Date and Hour 09/20/2017	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

RECEIVED

By Olivia Yu at 1:35 pm, Sep 29, 2017

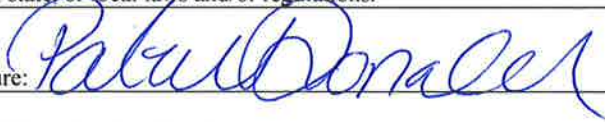
Describe Cause of Problem and Remedial Action Taken.*

Line rupture, no remedial action taken at this time. Larson and Associates have been assigned for remediation.
Estimated area affected: L45'x W10'x D4"

Describe Area Affected and Cleanup Action Taken.*

Pasture Land, no remediation has taken place as of this time.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Patricia Donald	Approved by Environmental Specialist: 	
Title: Regulatory Analyst	Approval Date: 9/29/2017	Expiration Date:
E-mail Address: Patricia_Donald@xtoenergy.com	Conditions of Approval: see attached directive	Attached ☒
Date: 09/28/2017	Phone: 432-571-8220	

* Attach Additional Sheets If Necessary

fOY1727249863

1RP-4832

nOY1727250040

pOY1727250266

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 9/29/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4832 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 10/29/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

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	NCH1903648978
District RP	1RP-5340
Facility ID	fOY1727249863
Application ID	pCH1903649364

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email shelby_pennington@xtoenergy.com	Incident # NCH1903648978 EMSU SATELLITE #13 @ fOY1727249863
Contact mailing address 6401 Holiday Hill Rd. Building 5 Midland TX 79707	

Location of Release Source

Latitude 32.5747917° N Longitude -103.3216444° W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name EMSU Satellite #13	Site Type Flowline
Date Release Discovered 1/07/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	14	20S	36E	Lea

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

Federal Minerals

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) 332 bbls	Volume Recovered (bbls) 300 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A flowline was struck by a track hoe during soil remediation.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was a volume more than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to Christina Hernandez (OCD District 1) and Jim Griswold (OCD Santa Fe) by Shelby Pennington, 01/08/2019	

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: 	
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 G Pennington</u>	Date: 1/28/19
email: shelby_pennington@xtoenergy.com	Telephone: 281-723-9353
OCD Only Received by RECEIVED By CHernandez at 1:37 pm, Feb 05, 2019	

Appendix B
Regulatory Communications

From: [Tucker, Shelly](#)
To: [Mark Larson](#)
Cc: [Pennington, Shelby](#)
Subject: Re: [EXTERNAL] FW: 1RP-4832 - Delineation Report, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., July 6, 2018
Date: Wednesday, September 19, 2018 2:53:23 PM

BLM concurs with NMOCD.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. **In such an event a site does not achieve successful restoration, or future issues with contaminants are encountered, the operator will be asked to address these issues until they are fully mitigated and the location is successfully reclaimed.** In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

NOTE: LPC Timing Stipulations - from March 1st through June 15th. Please plan remedial activities accordingly. Check for African Rue...treat (before it gets out of control).

On Mon, Jul 23, 2018 at 4:46 PM Mark Larson <Mark@laenvironmental.com> wrote:

Dear Ms. Tucker,

Larson & Associates, Inc. (LAI), on behalf of XTO Energy, Inc. (XTO) requests approval from the US Bureau of Land Management (BLM) to complete remediation at the EMSU B Satellite 13 truck line produced water spill site, as approved below by OCD.

Respectfully,

Mark J. Larson, P.G.

President/Sr. Hydrogeologist

507 N. Marienfeld St., Suite 205

Midland, Texas 79701

Office – 432-687-0901

Cell – 432- 556-8656

Fax – 432-687-0456

mark@laenvironmental.com

Logo



“Serving the Permian Basin Since 2000”

From: Hernandez, Christina, EMNRD [mailto:Christina.Hernandez@state.nm.us]

Sent: Monday, July 23, 2018 5:35 PM

To: Mark Larson; 'Tucker, Shelly'; Yu, Olivia, EMNRD

Cc: 'Pennington, Shelby'

Subject: RE: 1RP-4832 - Delineation Report, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., July 6, 2018

Mr. Larson:

Like approval from BLM required.

Thanks,

Christina Hernandez

EMNRD-OCD

Environmental Specialist

1625 N. French Drive

Hobbs, NM 88240

575-393-6161 x111

Christina.Hernandez@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Hernandez, Christina, EMNRD

Sent: Monday, July 23, 2018 2:53 PM

To: 'Mark Larson' <Mark@laenvironmental.com>; 'Tucker, Shelly' <stucker@blm.gov>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>

Cc: 'Pennington, Shelby' <Shelby_Pennington@xtoenergy.com>

Subject: RE: 1RP-4832 - Delineation Report, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., July 6, 2018

Dear Mr. Larson:

Notes

- Please use different colors within a single map to facilitate interpretation and approval.
- Please clarify location of the 4' extended excavation relative to the other excavations as it is unclear. Will it be 10 ft north of the current excavation or 10 ft north of the proposed 12' extended excavation?
- Areas that show historic releases (DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12, DP-13) must be remediated as well due to high mobility of chlorides.

Delineation completed and proposed remediation is approved with the following stipulations:

- Please note that both proposed monitoring wells are required, one up gradient and one down gradient from spill release location as noted. (Mr. Brad Billings, NMOCD Santa Fe, may have additional stipulations).
- Please be advised that all laboratory analyses (Benzene, BTEX, and TPH extended) are required for proposed 12' and 4' extended excavation confirmation bottom and sidewall sample locations; complete laboratory analyses will also be required for groundwater testing.
- Please address historical releases; please be advised to excavate to 4' at these (DP-2, DP-6, DP-7, DP-9, DP-10, DP-11, DP-12, DP-13) locations and collect sidewall samples as well.
- After proper placement of 20 mil liner and back filling, sample every 50 cubic yards.

Thanks,

Christina Hernandez

EMNRD-OCD

Environmental Specialist

1625 N. French Drive

Hobbs, NM 88240

575-393-6161 x111

Christina.Hernandez@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Mark Larson <Mark@laenvironmental.com>

Sent: Friday, July 13, 2018 3:03 PM

To: 'Tucker, Shelly' <stucker@blm.gov>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>

Cc: 'Pennington, Shelby' <Shelby_Pennington@xtoenergy.com>

Subject: FW: 1RP-4832 - Delineation Report, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., July 6, 2018

Shelly,

Please accept my apology for not including you on the attached submittal to OCD District 1. Please contact Shelby Pennington with XTO at (432) 682-8873 or email Shelby_Pennington@xtoenergy.com or me if you have questions.

Respectfully,

Mark J. Larson, P.G.

President/Sr. Project Manager

507 N. Marienfeld St., Suite 205

Midland, Texas 79701

(432) 687-0901 (O)

(432) 556-8656 (C)

Logo



www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

From: Mark Larson

Sent: Friday, July 13, 2018 4:00 PM

To: 'Yu, Olivia, EMNRD'; 'Christina.Hernandez@state.nm.us'

Cc: 'Pennington, Shelby'

Subject: Re: 1RP-4832 - Delineation Report, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., July 6, 2018

Dear Ms. Yu and Ms. Hernandez,

Larson & Associates, Inc. (LAI), on behalf of XTO Energy, Inc. (XTO), submits the attached delineation report for a produced water leak from the EMSU Satellite #13 trunk line. XTO proposes the following remedial actions in response to the spill:

- Install one (1) monitoring well down gradient (south) of the spill constructed with 2 inch schedule 40 threaded PVC and fifteen (15) feet of well screen positioned between approximately 30 and 45 feet bgs;
- Collect groundwater samples for field (chloride) and laboratory (BTEX and chloride) analysis by EPA SW-846 Methods 8021B and Method 300, respectively;
- Install second temporary monitoring well up gradient (north) of spill if field chloride analysis demonstrate concentration greater than 250 milligrams per liter (mg/L) and construct similar to down gradient well;
- Expand excavation north, south and west between about 5 to 10 feet from current excavation boundary to depth of about 12 feet bgs and collect confirmation bottom sample at approximately 12 feet bgs (HA-1) and sidewalls (north, south, east and west) at approximately 2, 8 and 10 feet bgs and analyze for TPH by EPA SW-846 Method 8015M, including GRO (C6-C12), DRO (>C12-C28) and ODR (>C28-C35);
- Excavate additional soil from sidewalls and bottom as necessary to reduce TPH below 100 mg/Kg;
- Assuming no further soil excavation backfill excavation with caliche to approximately 4 feet bgs;
- Expand excavation to depth of approximately 4 feet bgs north (10 feet), south (5 feet), east (15 feet) and west (30 feet) and collect bottom (4 feet) and sidewall (2 feet) confirmation samples for laboratory analysis (TPH and chloride) by EPA SW-846 Method 8015M and Method 300, respectively, to confirm concentrations below 100 mg/Kg (TPH) and 250 mg/Kg (chloride);
- Expand excavation as needed (north, south, east and west) approximately 4 feet bgs until sidewall confirmation samples report TPH and chloride below 100 mg/Kg and 250 mg/kg, respectively;
- Assuming no further soil excavation install 20 mil thickness poly liner in bottom of excavation at approximately 4 feet bgs, backfill excavation with clean soil and seed to landowner specifications;
- Dispose of excavated soil at Sundance (Parabo) disposal.

Your approval of the delineation report and proposed remediation plan are appreciated. Please contact Shelby Pennington with XTO at (432) 682-8873 or email Shelby_Pennington@xtoenergy.com or me if you have questions.

Respectfully,

Mark J. Larson, P.G.

President/Sr. Project Manager

507 N. Marienfeld St., Suite 205

Midland, Texas 79701

(432) 687-0901 (O)

(432) 556-8656 (C)

Logo



www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]

Sent: Tuesday, November 28, 2017 1:06 PM

To: Mark Larson

Cc: 'Williams, Luke'; 'Donald, Patricia'

Subject: RE: 1RP-4832 - Delineation Plan, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., October 15, 2017

Mr. Larson:

The proposed delineation report for 1RP-4832 is approved with these stipulations:

- Please note that based on the release outlined in Figure 3, there are 2 NMOSE wells (L04507 & L10135) within 1000 ft. of the GPS coordinates for the site.
- Delineate to 600 mg/kg chloride levels and maintained for 10 ft. further in depth.
- At least two depths for each sample location must have laboratory analyses: depth obtained and depth maintained permissible levels of chlorides, TPH extended, and BTEX. Include all pertinent field data.
- Please be advised that with average depth to groundwater < 50 ft. bgs, a temporary monitoring well may be required.
- In the subsequent delineation report, please include on one or more appropriately scaled maps: 1) the release area and pipeline trench outlined; 2) delineation and proposed confirmation sample locations demarcated with GPS coordinates; 3) and dimensions and depths of proposed excavations annotated.

Please confirm or inform if clarification is required.

Thanks,

Olivia Yu

Environmental Specialist

NMOCD, District I

Olivia.yu@state.nm.us

575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Mark Larson [<mailto:Mark@laenvironmental.com>]

Sent: Monday, November 27, 2017 2:41 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: 'Williams, Luke' <Luke_Williams@xtoenergy.com>; 'Donald, Patricia' <Patricia_Donald@xtoenergy.com>
Subject: FW: 1RP-4832 - Delineation Plan, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., October 15, 2017

Hello Olivia,

This message is submitted on behalf of XTO Energy, Inc. (XTO) as a follow up to the email sent on October 19, 2017, conveying the delineation plan for 1RP-4832, and approval to delineate the spill according to the attached plan? Please contact Luke Williams with XTO at (432) 682-8873 or email Luke_Williams@xtoenergy.com or me if you have questions.

Respectfully,

Mark J. Larson, P.G.

President/Sr. Project Manager

507 N. Marienfeld St., Suite 205

Midland, Texas 79701

(432) 687-0901 (O)

(432) 556-8656 (C)

Logo



www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

From: Mark Larson

Sent: Thursday, October 19, 2017 5:44 PM

To: 'Yu, Olivia, EMNRD'

Cc: 'Williams, Luke'; Sarah Johnson

Subject: Re: 1RP-4832 - Delineation Plan, EMSU B Satellite #13 Trunk Line Leak, XTO Energy, Inc., October 15, 2017

Dear Ms. Yu,

Larson & Associates, Inc. (LAI), on behalf of XTO Energy, Inc. (XTO), submits the attached delineation plan for a produced water leak from the flow line from EMSU Satellite #13 trunk line. Please contact Luke Williams with XTO at (432) 682-8873 or email Luke_Williams@xtoenergy.com or me if you have questions.

Respectfully,

Mark J. Larson, P.G.

President/Sr. Project Manager

507 N. Marienfeld St., Suite 205

Midland, Texas 79701

(432) 687-0901 (O)

(432) 556-8656 (C)

Logo



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Appendix C
Laboratory Reports

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO EMSU Sat 13

Project Number: 17-0193-01

Location: None Given

Lab Order Number: 8K19005



NELAP/TCEQ # T104704516-17-8

Report Date: 11/21/18

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP- 2 N (2')	8K19005-01	Soil	11/16/18 10:40	11-19-2018 11:40
DP- 2 E (2')	8K19005-02	Soil	11/16/18 10:41	11-19-2018 11:40
DP- 2 S (2')	8K19005-03	Soil	11/16/18 10:44	11-19-2018 11:40
DP- 2 W (2')	8K19005-04	Soil	11/16/18 10:45	11-19-2018 11:40
DP- 9 N (2')	8K19005-05	Soil	11/16/18 10:48	11-19-2018 11:40
DP- 9 E (2')	8K19005-06	Soil	11/16/18 10:50	11-19-2018 11:40
DP- 9 S (2')	8K19005-07	Soil	11/16/18 10:21	11-19-2018 11:40
DP- 9 W (2')	8K19005-08	Soil	11/16/18 10:53	11-19-2018 11:40
DP- 13 N (2')	8K19005-09	Soil	11/16/18 10:58	11-19-2018 11:40
DP- 13 E (2')	8K19005-10	Soil	11/16/18 11:00	11-19-2018 11:40
DP- 13 S (2')	8K19005-11	Soil	11/16/18 11:01	11-19-2018 11:40
DP- 13 W (2')	8K19005-12	Soil	11/16/18 11:02	11-19-2018 11:40
DP- 12 N (2')	8K19005-13	Soil	11/16/18 11:07	11-19-2018 11:40
DP- 12 E (2')	8K19005-14	Soil	11/16/18 11:09	11-19-2018 11:40
DP- 12 S (2')	8K19005-15	Soil	11/16/18 11:10	11-19-2018 11:40
DP- 12 W (2')	8K19005-16	Soil	11/16/18 11:12	11-19-2018 11:40
DP- 11 N (2')	8K19005-17	Soil	11/16/18 11:18	11-19-2018 11:40
DP- 11 E (2')	8K19005-18	Soil	11/16/18 11:20	11-19-2018 11:40
DP- 11 S (2')	8K19005-19	Soil	11/16/18 11:22	11-19-2018 11:40
DP- 11 W (2')	8K19005-20	Soil	11/16/18 11:23	11-19-2018 11:40
DP- 7 N (2')	8K19005-21	Soil	11/16/18 11:51	11-19-2018 11:40
DP- 7 E (2')	8K19005-22	Soil	11/16/18 11:53	11-19-2018 11:40
DP- 7 S (2')	8K19005-23	Soil	11/16/18 11:54	11-19-2018 11:40
DP- 7 W (2')	8K19005-24	Soil	11/16/18 11:56	11-19-2018 11:40
DP- 6 N (2')	8K19005-25	Soil	11/16/18 13:57	11-19-2018 11:40
DP- 6 E (2')	8K19005-26	Soil	11/16/18 13:59	11-19-2018 11:40
DP- 6 S (2')	8K19005-27	Soil	11/16/18 14:00	11-19-2018 11:40
DP- 6 W (2')	8K19005-28	Soil	11/16/18 14:03	11-19-2018 11:40
DP- 10 N (2')	8K19005-29	Soil	11/16/18 14:05	11-19-2018 11:40
DP- 10 E (2')	8K19005-30	Soil	11/16/18 14:06	11-19-2018 11:40
DP- 10 S (2')	8K19005-31	Soil	11/16/18 14:09	11-19-2018 11:40
DP- 10 W (2')	8K19005-32	Soil	11/16/18 14:11	11-19-2018 11:40

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 2 N (2')
8K19005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.4 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.82	1.10	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		98.2 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 2 E (2')
8K19005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.24	1.16	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		72.9 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: o-Terphenyl		83.9 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 2 S (2')
8K19005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.24	1.04	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	4.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		72.3 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: o-Terphenyl		81.8 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 2 W (2')
8K19005-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.0 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.42	1.12	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		72.4 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: o-Terphenyl		82.4 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 9 N (2')
8K19005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.0 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.11	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		63.6 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	S-GC
Surrogate: o-Terphenyl		72.8 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 9 E (2')
8K19005-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0119	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00595	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0238	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0119	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	S-09
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.19	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	26.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	46.9	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	29.8	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	76.7	29.8	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 9 S (2')
8K19005-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.64	1.16	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 9 W (2')
8K19005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.4 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.16	mg/kg dry	1	P8K1914	11/19/18	11/20/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 13 N (2')
8K19005-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-125		P8K1910	11/19/18	11/19/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	56.1	1.08	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		76.4 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: o-Terphenyl		87.6 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 13 E (2')
8K19005-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.5 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	54.1	1.09	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 13 S (2')
8K19005-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.49	1.08	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 13 W (2')
8K19005-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.8	1.09	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: 1-Chlorooctane		82.5 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Surrogate: o-Terphenyl		94.2 %	70-130		P8K1905	11/19/18	11/19/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/19/18	11/19/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 12 N (2')
8K19005-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0119	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00595	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0238	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0119	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.4 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.19	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	16.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		83.4 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 12 E (2')
8K19005-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0118	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00588	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0235	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0118	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.18	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	15.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 12 S (2')
8K19005-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.2 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.09	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 12 W (2')
8K19005-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.11	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	42.4	27.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	36.8	27.8	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		75.7 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		85.8 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	79.2	27.8	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 11 N (2')

8K19005-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.10	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 11 E (2')
8K19005-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.12	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		80.9 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		93.0 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 11 S (2')
8K19005-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1.35	1.14	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		90.2 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 11 W (2')
8K19005-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.0 %	75-125		P8K1910	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.14	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		82.7 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		95.1 %	70-130		P8K1905	11/19/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/19/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 7 N (2')
8K19005-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.9 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.14	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 7 E (2')
8K19005-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	425	1.06	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 7 S (2')
8K19005-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 7 W (2')

8K19005-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.03	1.06	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		98.2 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 6 N (2')
8K19005-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0103	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0103	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.5	1.03	mg/kg dry	1	P8K1915	11/19/18	11/20/18	EPA 300.0	
% Moisture	3.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		86.7 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		99.7 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 6 E (2')
8K19005-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	125	1.06	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		92.5 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 6 S (2')
8K19005-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.61	1.06	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		96.7 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 6 W (2')

8K19005-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.1	1.05	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 10 N (2')
8K19005-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		93.2 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P8K2010	11/20/18	11/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/18	11/20/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP- 10 E (2')
8K19005-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.09	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/20/18	11/21/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 10 S (2')
8K19005-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.08	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		95.9 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/20/18	11/21/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP- 10 W (2')
8K19005-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P8K1911	11/19/18	11/20/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.04	mg/kg dry	1	P8K2006	11/20/18	11/20/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8K2003	11/20/18	11/20/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		96.7 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P8K2010	11/20/18	11/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/20/18	11/21/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1910 - General Preparation (GC)

Blank (P8K1910-BLK1)

Prepared & Analyzed: 11/19/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0533		"	0.0600		88.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0677		"	0.0600		113	75-125			

LCS (P8K1910-BS1)

Prepared & Analyzed: 11/19/18

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Toluene	0.110	0.0100	"	0.100		110	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.212	0.0200	"	0.200		106	70-130			
Xylene (o)	0.120	0.0100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0600		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0682		"	0.0600		114	75-125			

LCS Dup (P8K1910-BSD1)

Prepared & Analyzed: 11/19/18

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130	5.36	20	
Toluene	0.105	0.0100	"	0.100		105	70-130	4.20	20	
Ethylbenzene	0.103	0.00500	"	0.100		103	70-130	7.68	20	
Xylene (p/m)	0.214	0.0200	"	0.200		107	70-130	1.17	20	
Xylene (o)	0.118	0.0100	"	0.100		118	70-130	1.49	20	
Surrogate: 1,4-Difluorobenzene	0.0645		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0717		"	0.0600		120	75-125			

Matrix Spike (P8K1910-MS1)

Source: 8K19005-20

Prepared: 11/19/18 Analyzed: 11/20/18

Benzene	0.0809	0.00114	mg/kg dry	0.114	ND	71.2	80-120			QM-05
Toluene	0.0786	0.0114	"	0.114	ND	69.1	80-120			QM-05
Ethylbenzene	0.0824	0.00568	"	0.114	ND	72.5	80-120			QM-05
Xylene (p/m)	0.152	0.0227	"	0.227	ND	66.7	80-120			QM-05
Xylene (o)	0.0712	0.0114	"	0.114	ND	62.6	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.0754		"	0.0682		111	75-125			
Surrogate: 4-Bromofluorobenzene	0.0913		"	0.0682		134	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1910 - General Preparation (GC)

Matrix Spike Dup (P8K1910-MSD1)		Source: 8K19005-20		Prepared: 11/19/18		Analyzed: 11/20/18				
Benzene	0.0936	0.00114	mg/kg dry	0.114	ND	82.4	80-120	14.5	20	
Toluene	0.0916	0.0114	"	0.114	ND	80.6	80-120	15.4	20	
Ethylbenzene	0.0953	0.00568	"	0.114	ND	83.9	80-120	14.5	20	
Xylene (p/m)	0.171	0.0227	"	0.227	ND	75.3	80-120	12.2	20	QM-05
Xylene (o)	0.0860	0.0114	"	0.114	ND	75.6	80-120	18.8	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.0782		"	0.0682		115	75-125			
Surrogate: 4-Bromofluorobenzene	0.0912		"	0.0682		134	75-125			S-GC

Batch P8K1911 - General Preparation (GC)

Blank (P8K1911-BLK1)				Prepared: 11/19/18		Analyzed: 11/20/18				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 4-Bromofluorobenzene	0.0680		"	0.0600		113	75-125			
Surrogate: 1,4-Difluorobenzene	0.0550		"	0.0600		91.6	75-125			

LCS (P8K1911-BS1)				Prepared: 11/19/18		Analyzed: 11/20/18				
Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130			
Toluene	0.107	0.0100	"	0.100		107	70-130			
Ethylbenzene	0.116	0.00500	"	0.100		116	70-130			
Xylene (p/m)	0.208	0.0200	"	0.200		104	70-130			
Xylene (o)	0.111	0.0100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0639		"	0.0600		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.0675		"	0.0600		112	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1911 - General Preparation (GC)

LCS Dup (P8K1911-BSD1)

Prepared: 11/19/18 Analyzed: 11/20/18

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	0.0666	20	
Toluene	0.109	0.0100	"	0.100		109	70-130	1.87	20	
Ethylbenzene	0.118	0.00500	"	0.100		118	70-130	1.61	20	
Xylene (p/m)	0.207	0.0200	"	0.200		104	70-130	0.261	20	
Xylene (o)	0.109	0.0100	"	0.100		109	70-130	2.24	20	
Surrogate: 4-Bromofluorobenzene	0.0699		"	0.0600		117	75-125			
Surrogate: 1,4-Difluorobenzene	0.0651		"	0.0600		108	75-125			

Matrix Spike (P8K1911-MS1)

Source: 8K19005-32

Prepared: 11/19/18 Analyzed: 11/20/18

Benzene	0.0875	0.00104	mg/kg dry	0.104	ND	84.0	80-120			
Toluene	0.0868	0.0104	"	0.104	ND	83.3	80-120			
Ethylbenzene	0.0966	0.00521	"	0.104	ND	92.8	80-120			
Xylene (p/m)	0.188	0.0208	"	0.208	ND	90.1	80-120			
Xylene (o)	0.0917	0.0104	"	0.104	ND	88.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.0692		"	0.0625		111	75-125			
Surrogate: 4-Bromofluorobenzene	0.0734		"	0.0625		118	75-125			

Matrix Spike Dup (P8K1911-MSD1)

Source: 8K19005-32

Prepared: 11/19/18 Analyzed: 11/20/18

Benzene	0.0901	0.00104	mg/kg dry	0.104	ND	86.5	80-120	2.91	20	
Toluene	0.0904	0.0104	"	0.104	ND	86.7	80-120	3.99	20	
Ethylbenzene	0.101	0.00521	"	0.104	ND	97.4	80-120	4.88	20	
Xylene (p/m)	0.189	0.0208	"	0.208	ND	90.7	80-120	0.703	20	
Xylene (o)	0.0889	0.0104	"	0.104	ND	85.3	80-120	3.05	20	
Surrogate: 4-Bromofluorobenzene	0.0717		"	0.0625		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.0684		"	0.0625		109	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1914 - * DEFAULT PREP *****

Blank (P8K1914-BLK1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	ND	1.00	mg/kg wet							
LCS (P8K1914-BS1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	407	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P8K1914-BSD1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.209	20	
Duplicate (P8K1914-DUP1)				Source: 8K16018-02		Prepared: 11/19/18 Analyzed: 11/20/18				
Chloride	5650	26.6	mg/kg dry		5710			1.15	20	
Duplicate (P8K1914-DUP2)				Source: 8K16021-04		Prepared: 11/19/18 Analyzed: 11/20/18				
Chloride	9820	26.3	mg/kg dry		9850			0.332	20	
Matrix Spike (P8K1914-MS1)				Source: 8K16018-02		Prepared: 11/19/18 Analyzed: 11/20/18				
Chloride	8310	26.6	mg/kg dry	2660	5710	97.5	80-120			

Batch P8K1915 - * DEFAULT PREP *****

Blank (P8K1915-BLK1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	ND	1.00	mg/kg wet							
LCS (P8K1915-BS1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	407	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P8K1915-BSD1)				Prepared: 11/19/18 Analyzed: 11/20/18						
Chloride	409	1.00	mg/kg wet	400		102	80-120	0.588	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 38 of 46

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1915 - * DEFAULT PREP *****

Duplicate (P8K1915-DUP1)	Source: 8K19009-01		Prepared: 11/19/18 Analyzed: 11/20/18							
Chloride	5660	11.9	mg/kg dry		5590			1.30	20	
Duplicate (P8K1915-DUP2)	Source: 8K19005-16		Prepared: 11/19/18 Analyzed: 11/20/18							
Chloride	ND	1.11	mg/kg dry		ND				20	
Matrix Spike (P8K1915-MS1)	Source: 8K19009-01		Prepared: 11/19/18 Analyzed: 11/20/18							
Chloride	6800	11.9	mg/kg dry	1190	5590	101	80-120			

Batch P8K2003 - * DEFAULT PREP *****

Blank (P8K2003-BLK1)	Prepared & Analyzed: 11/20/18									
% Moisture	ND	0.1	%							
Duplicate (P8K2003-DUP1)	Source: 8K19005-21		Prepared & Analyzed: 11/20/18							
% Moisture	14.0	0.1	%		12.0			15.4	20	
Duplicate (P8K2003-DUP2)	Source: 8K19006-16		Prepared & Analyzed: 11/20/18							
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P8K2003-DUP3)	Source: 8K19009-03		Prepared & Analyzed: 11/20/18							
% Moisture	15.0	0.1	%		15.0			0.00	20	

Batch P8K2006 - * DEFAULT PREP *****

Blank (P8K2006-BLK1)	Prepared & Analyzed: 11/20/18									
Chloride	ND	1.00	mg/kg wet							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8K2006 - *** DEFAULT PREP ***										
LCS (P8K2006-BS1)				Prepared & Analyzed: 11/20/18						
Chloride	409	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P8K2006-BSD1)				Prepared & Analyzed: 11/20/18						
Chloride	407	1.00	mg/kg wet	400		102	80-120	0.471	20	
Duplicate (P8K2006-DUP1)				Source: 8K19005-26	Prepared & Analyzed: 11/20/18					
Chloride	128	1.06	mg/kg dry		125			1.77	20	
Duplicate (P8K2006-DUP2)				Source: 8K19006-13	Prepared: 11/20/18 Analyzed: 11/21/18					
Chloride	599	1.05	mg/kg dry		650			8.16	20	
Matrix Spike (P8K2006-MS1)				Source: 8K19005-26	Prepared & Analyzed: 11/20/18					
Chloride	657	1.06	mg/kg dry	532	125	99.9	80-120			

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P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K1905 - TX 1005

Blank (P8K1905-BLK1)

Prepared & Analyzed: 11/19/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.4		"	100		82.4	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.1	70-130			

LCS (P8K1905-BS1)

Prepared & Analyzed: 11/19/18

C6-C12	800	25.0	mg/kg wet	1000		80.0	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

LCS Dup (P8K1905-BSD1)

Prepared & Analyzed: 11/19/18

C6-C12	1070	25.0	mg/kg wet	1000		107	75-125	28.5	20	
>C12-C28	1220	25.0	"	1000		122	75-125	18.6	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

Matrix Spike (P8K1905-MS1)

Source: 8K19005-20

Prepared: 11/19/18 Analyzed: 11/20/18

C6-C12	906	28.4	mg/kg dry	1140	23.0	77.7	75-125			
>C12-C28	1000	28.4	"	1140	12.5	86.9	75-125			
Surrogate: 1-Chlorooctane	122		"	114		107	70-130			
Surrogate: o-Terphenyl	57.5		"	56.8		101	70-130			

Matrix Spike Dup (P8K1905-MSD1)

Source: 8K19005-20

Prepared: 11/19/18 Analyzed: 11/20/18

C6-C12	908	28.4	mg/kg dry	1140	23.0	77.9	75-125	0.271	20	
>C12-C28	1010	28.4	"	1140	12.5	87.9	75-125	1.20	20	
Surrogate: 1-Chlorooctane	121		"	114		107	70-130			
Surrogate: o-Terphenyl	57.5		"	56.8		101	70-130			

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8K2010 - TX 1005

Blank (P8K2010-BLK1)

Prepared & Analyzed: 11/20/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

LCS (P8K2010-BS1)

Prepared & Analyzed: 11/20/18

C6-C12	940	25.0	mg/kg wet	1000		94.0	75-125			
>C12-C28	990	25.0	"	1000		99.0	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			

LCS Dup (P8K2010-BSD1)

Prepared & Analyzed: 11/20/18

C6-C12	968	25.0	mg/kg wet	1000		96.8	75-125	2.92	20	
>C12-C28	1010	25.0	"	1000		101	75-125	2.15	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Matrix Spike (P8K2010-MS1)

Source: 8K19009-01

Prepared: 11/20/18 Analyzed: 11/21/18

C6-C12	1100	29.8	mg/kg dry	1190	14.0	91.6	75-125			
>C12-C28	1230	29.8	"	1190	12.3	102	75-125			
Surrogate: 1-Chlorooctane	133		"	119		112	70-130			
Surrogate: o-Terphenyl	62.9		"	59.5		106	70-130			

Matrix Spike Dup (P8K2010-MSD1)

Source: 8K19009-01

Prepared: 11/20/18 Analyzed: 11/21/18

C6-C12	1090	29.8	mg/kg dry	1190	14.0	90.0	75-125	1.78	20	
>C12-C28	1220	29.8	"	1190	12.3	101	75-125	0.744	20	
Surrogate: 1-Chlorooctane	128		"	119		108	70-130			
Surrogate: o-Terphenyl	62.0		"	59.5		104	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

S-09 Surrogate recovery limits have been exceeded.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 11/21/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Data Reported to:

COLLECTOR: CD

0413

CHAIN-OF-CUSTODY

Released to Imaging: 10/16/2024 9:37:59 AM

Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/19/18 PAGE 2 OF 3
PO#: LAB WORK ORDER# 844005
PROJECT LOCATION OR NAME: 450 Emsu St 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CB

NO 0414
CHAIN-OF-CUSTODY

Page 45 of 46

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
DR-12-N (2)	14	11/6/18	11:12	S						X		
DR-11-N (2)	14		11:18							X		
DR-11-E (2)	18		11:20							X		
DR-11-S (2)	19		11:28							X		
DR-11-W (2)	20		11:33							X		
DR-7-N (2)	21		11:51							X		
DR-7-E (2)	22		11:53							X		
DR-7-S (2)	23		11:54							X		
DR-7-W (2)	24		11:56							X		
DR-6-N (2)	25		12:57							X		
DR-6-E (2)	26		13:59							X		
DR-6-S (2)	27		14:00							X		
DR-6-W (2)	28		14:03							X		
DR-10-N (2)	29		14:05							X		
DR-10-E (2)	30		14:06							X		
TOTAL										15	15	15

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
<i>Carly Haggard</i>	11/19/18		
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

LABORATORY: <u>PBEL</u>	DATE/TIME: <u>11/19/18</u>	RECEIVED BY: (Signature)	DATE/TIME
		<i>Musser-Haddock</i>	

TURN AROUND TIME	LABORATORY USE ONLY:
NORMAL ☐	RECEIVING TEMP: <u>31</u> THERM: <u>42</u>
1 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
2 DAY ☒	CARRIER BILL #
OTHER ☐	HAND DELIVERED ☐

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientfield, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/19/18 PAGE 3 OF 3
PO#: 81191005
LAB WORK ORDER#: 81191005
PROJECT LOCATION OR NAME: XTO EMSD 30213
LAI PROJECT #: 17-0193-01 COLLECTOR: CB

CHAIN-OF-CUSTODY

Nº 0415

Page 46 of 46

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒
8082 PESTICIDES ☒
8151 HERBICIDES ☒
TCLP - METALS ☒
TCLP - PEST ☒
TOTAL METALS (RCRA) ☒
LEAD - TOTAL ☒
RCL ☒ TOX ☒ FLASHPOINT ☒
IDS ☒ TSS ☒ % MOISTURE ☒
PH ☒ HEXAVALENT CHROMIUM ☒
EXPLOSIVES ☒ PESTICIDES ☒
CHLORIDES ☒ ANIONS ☒ ALKALINITY ☒
M300

FIELD NOTES

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

PREL

TURN AROUND TIME

NORMAL ☐1 DAY ☐2 DAY ☒OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 3.1THERM#: 22CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☐ HAND DELIVERED

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Location: None Given
Lab Order Number: 8L03002



NELAP/TCEQ # T104704516-17-8

Report Date: 12/04/18

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 (6')	8L03002-01	Soil	11/30/18 07:35	12-03-2018 10:14
S-2 (6')	8L03002-02	Soil	11/30/18 07:38	12-03-2018 10:14
S-3 (6')	8L03002-03	Soil	11/30/18 07:41	12-03-2018 10:14
S-4 (6')	8L03002-04	Soil	11/30/18 07:44	12-03-2018 10:14
S-5 (2')	8L03002-05	Soil	11/30/18 07:51	12-03-2018 10:14
S-6 (2')	8L03002-06	Soil	11/30/18 07:54	12-03-2018 10:14

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-1 (6')
8L03002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1020	5.56	mg/kg dry	5	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	30.8	27.8	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	30.8	27.8	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-2 (6')
8L03002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	526	1.14	mg/kg dry	1	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-3 (6')
8L03002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	111	1.08	mg/kg dry	1	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	30.0	26.9	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	754	26.9	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	140	26.9	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	924	26.9	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-4 (6')
8L03002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.1	1.10	mg/kg dry	1	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	38.8	27.5	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	38.8	27.5	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-5 (2')
8L03002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1250	10.5	mg/kg dry	10	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-6 (2')
8L03002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	351	1.01	mg/kg dry	1	P8L0304	12/03/18	12/04/18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P8L0410	12/04/18	12/04/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P8L0404	12/03/18	12/03/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/03/18	12/03/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8L0304 - *** DEFAULT PREP ***										
Blank (P8L0304-BLK1)				Prepared: 12/03/18 Analyzed: 12/04/18						
Chloride	ND	1.00	mg/kg wet							
LCS (P8L0304-BS1)				Prepared: 12/03/18 Analyzed: 12/04/18						
Chloride	ND	1.00	mg/kg wet	400			80-120			
LCS Dup (P8L0304-BSD1)				Prepared: 12/03/18 Analyzed: 12/04/18						
Chloride	ND	1.00	mg/kg wet	400			80-120		20	
Duplicate (P8L0304-DUP1)				Source: 8L03002-01		Prepared: 12/03/18 Analyzed: 12/04/18				
Chloride	ND	1.11	mg/kg dry		1020				20	
Duplicate (P8L0304-DUP2)				Source: 8K28014-02		Prepared: 12/03/18 Analyzed: 12/04/18				
Chloride	ND	1.20	mg/kg dry		ND				20	
Matrix Spike (P8L0304-MS1)				Source: 8L03002-01		Prepared: 12/03/18 Analyzed: 12/04/18				
Chloride	ND	1.11	mg/kg dry	1110	1020	NR	80-120			
Batch P8L0410 - *** DEFAULT PREP ***										
Blank (P8L0410-BLK1)				Prepared & Analyzed: 12/04/18						
% Moisture	ND	0.1	%							
Duplicate (P8L0410-DUP1)				Source: 8L01001-20		Prepared & Analyzed: 12/04/18				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P8L0410-DUP2)				Source: 8L01001-47		Prepared & Analyzed: 12/04/18				
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8L0410 - *** DEFAULT PREP ***										
Duplicate (P8L0410-DUP3)		Source: 8L01001-74		Prepared & Analyzed: 12/04/18						
% Moisture	13.0	0.1	%		11.0			16.7	20	
Duplicate (P8L0410-DUP4)		Source: 8L01005-04		Prepared & Analyzed: 12/04/18						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P8L0410-DUP5)		Source: 8L01009-02		Prepared & Analyzed: 12/04/18						
% Moisture	6.0	0.1	%		9.0			40.0	20	
Duplicate (P8L0410-DUP6)		Source: 8L01009-14		Prepared & Analyzed: 12/04/18						
% Moisture	15.0	0.1	%		15.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P8L0404 - TX 1005

Blank (P8L0404-BLK1)

Prepared & Analyzed: 12/03/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	61.7		"	50.0		123	70-130			

LCS (P8L0404-BS1)

Prepared & Analyzed: 12/03/18

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1150	25.0	"	1000		115	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			

LCS Dup (P8L0404-BSD1)

Prepared & Analyzed: 12/03/18

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125	2.34	20	
>C12-C28	1190	25.0	"	1000		119	75-125	3.93	20	
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			

Duplicate (P8L0404-DUP1)

Source: 8K29009-14

Prepared: 12/03/18 Analyzed: 12/04/18

C6-C12	21.8	27.5	mg/kg dry		16.1			30.1	20	
>C12-C28	ND	27.5	"		13.2				20	
Surrogate: 1-Chlorooctane	111		"	110		101	70-130			
Surrogate: o-Terphenyl	62.9		"	54.9		114	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

12/4/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Varson & Associates, Inc.
Environmental Consultants

507 N. Warrenfield, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/1/18 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: X-10 Sect 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CJS

CHAIN-OF-CUSTODY

Page 13 of 13

TRRP report?
☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE:
Time zone/State:

MST

#8103002

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐ 8015 ☐
DIESEL - MOD 8015 ☐ 8015 ☐
OIL - MOD 8015 ☐ 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
TBLP - PCBs ☐
TCLP - METALS (RCRA) ☐ TCLP VOC ☐
TOTAL METALS (RCRA) ☐ SEMI-VOC ☐
LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐
RCI ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
PH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PENTACHLORATE ☐
CHLORIDE ANIONS ☐ ALKALINITY ☐

FIELD NOTES

5-1 (6')
5-2 (6')
5-3 (6')
5-4 (6')
5-5 (2')
5-6 (2')

11/30/18

7:35

S

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TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

7

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

NORMAL ☐RECEIVING TEMP: 2.2

THERM#: _____

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

2 DAY ☐CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

LABORATORY: PBEL

12-3-18 10:14

Ashley Upyer

OTHER ☐

CARRIER BILL # _____

HAND DELIVERED

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Location: None Given
Lab Order Number: 8L05001



NELAP/TCEQ # T104704516-17-8

Report Date: 12/07/18

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-7 (2')	8L05001-01	Soil	12/04/18 00:00	12-05-2018 09:00
S-8 (2')	8L05001-02	Soil	12/04/18 00:00	12-05-2018 09:00
S-9 (2')	8L05001-03	Soil	12/04/18 00:00	12-05-2018 09:00
S-10 (2')	8L05001-04	Soil	12/04/18 00:00	12-05-2018 09:00
S-11 (2')	8L05001-05	Soil	12/04/18 00:00	12-05-2018 09:00
S-12 (2')	8L05001-06	Soil	12/04/18 00:00	12-05-2018 09:00
S-13 (2')	8L05001-07	Soil	12/04/18 00:00	12-05-2018 09:00
S-14 (2')	8L05001-08	Soil	12/04/18 00:00	12-05-2018 09:00
S-15 (2')	8L05001-09	Soil	12/04/18 00:00	12-05-2018 09:00
S-16 (2')	8L05001-10	Soil	12/04/18 00:00	12-05-2018 09:00
S-17 (2')	8L05001-11	Soil	12/04/18 00:00	12-05-2018 09:00
S-18 (2')	8L05001-12	Soil	12/04/18 00:00	12-05-2018 09:00
S-19 (2')	8L05001-13	Soil	12/04/18 00:00	12-05-2018 09:00

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 (2')
8L05001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0202	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.7 %		75-125	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.7 %		75-125	P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.8	1.01	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %		70-130	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-8 (2')
8L05001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0202	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0101	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.7 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	491	1.01	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.4 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		99.3 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 (2')
8L05001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.4 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4680	27.8	mg/kg dry	25	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		84.9 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		89.9 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 (2')
8L05001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0102	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00510	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0204	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0102	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.2 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.0	1.02	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	2.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		87.0 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		93.4 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 (2')
8L05001-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0103	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0103	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.5 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	432	1.03	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	3.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		90.5 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 (2')
8L05001-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		79.6 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.3 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.27	1.06	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		76.4 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		81.4 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13 (2')
8L05001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.6 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	761	5.38	mg/kg dry	5	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: 1-Chlorooctane		78.7 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Surrogate: o-Terphenyl		85.6 %	70-130		P8L0513	12/05/18	12/05/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/05/18	12/05/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 (2')
8L05001-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.2 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		81.6 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		87.1 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-15 (2')
8L05001-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00500	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0200	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.0 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.00	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		83.2 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		88.8 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-16 (2')
8L05001-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.9 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		86.4 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		95.1 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-17 (2')
8L05001-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.3 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	30.0	1.05	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		94.6 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-18 (2')
8L05001-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.9 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.8 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	292	10.4	mg/kg dry	10	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	4.0	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		80.0 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		86.5 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-19 (2')
8L05001-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Toluene	ND	0.0100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Ethylbenzene	ND	0.00500	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (p/m)	ND	0.0200	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Xylene (o)	ND	0.0100	mg/kg dry	1	P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.7 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P8L0512	12/06/18	12/06/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	43.7	1.00	mg/kg dry	1	P8L0517	12/05/18	12/06/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8L0605	12/06/18	12/06/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: 1-Chlorooctane		85.2 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Surrogate: o-Terphenyl		73.2 %	70-130		P8L0513	12/05/18	12/06/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	12/05/18	12/06/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L0512 - General Preparation (GC)

Blank (P8L0512-BLK1)		Prepared & Analyzed: 12/06/18								
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0544		"	0.0600		90.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0592		"	0.0600		98.7	75-125			

LCS (P8L0512-BS1)		Prepared & Analyzed: 12/06/18								
Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130			
Toluene	0.0971	0.0100	"	0.100		97.1	70-130			
Ethylbenzene	0.113	0.00500	"	0.100		113	70-130			
Xylene (p/m)	0.194	0.0200	"	0.200		97.1	70-130			
Xylene (o)	0.112	0.0100	"	0.100		112	70-130			
Surrogate: 1,4-Difluorobenzene	0.0608		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0573		"	0.0600		95.6	75-125			

LCS Dup (P8L0512-BS1)		Prepared & Analyzed: 12/06/18								
Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130	0.711	20	
Toluene	0.0977	0.0100	"	0.100		97.7	70-130	0.626	20	
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130	3.12	20	
Xylene (p/m)	0.190	0.0200	"	0.200		95.0	70-130	2.21	20	
Xylene (o)	0.105	0.0100	"	0.100		105	70-130	5.75	20	
Surrogate: 1,4-Difluorobenzene	0.0590		"	0.0600		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0612		"	0.0600		102	75-125			

Matrix Spike (P8L0512-MS1)		Source: 8L05001-02		Prepared & Analyzed: 12/06/18						
Benzene	0.0774	0.00101	mg/kg dry	0.101	ND	76.6	80-120			QM-05
Toluene	0.0679	0.0101	"	0.101	ND	67.2	80-120			QM-05
Ethylbenzene	0.0809	0.00505	"	0.101	ND	80.1	80-120			
Xylene (p/m)	0.121	0.0202	"	0.202	ND	59.8	80-120			QM-05
Xylene (o)	0.0644	0.0101	"	0.101	ND	63.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.0592		"	0.0606		97.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0596		"	0.0606		98.3	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L0512 - General Preparation (GC)

Matrix Spike Dup (P8L0512-MSD1)	Source: 8L05001-02			Prepared & Analyzed: 12/06/18						
Benzene	0.0850	0.00101	mg/kg dry	0.101	ND	84.2	80-120	9.38	20	
Toluene	0.0730	0.0101	"	0.101	ND	72.3	80-120	7.30	20	QM-05
Ethylbenzene	0.0820	0.00505	"	0.101	ND	81.2	80-120	1.38	20	
Xylene (p/m)	0.120	0.0202	"	0.202	ND	59.3	80-120	0.916	20	QM-05
Xylene (o)	0.0619	0.0101	"	0.101	ND	61.3	80-120	3.92	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0642		"	0.0606		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.0632		"	0.0606		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L0517 - * DEFAULT PREP *****

Blank (P8L0517-BLK1)

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	ND	1.00	mg/kg wet							
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LCS (P8L0517-BS1)

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	415	1.00	mg/kg wet	400		104	80-120			
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LCS Dup (P8L0517-BSD1)

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	404	1.00	mg/kg wet	400		101	80-120	2.81	20	
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Duplicate (P8L0517-DUP1)

Source: 8K28019-17

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	1200	27.5	mg/kg dry		1230			2.89	20	
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Duplicate (P8L0517-DUP2)

Source: 8L05001-04

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	37.3	1.02	mg/kg dry		33.0			12.4	20	
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Matrix Spike (P8L0517-MS1)

Source: 8K28019-17

Prepared: 12/05/18 Analyzed: 12/06/18

Chloride	4130	27.5	mg/kg dry	2750	1230	105	80-120			
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Batch P8L0605 - * DEFAULT PREP *****

Blank (P8L0605-BLK1)

Prepared & Analyzed: 12/06/18

% Moisture	ND	0.1	%							
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Duplicate (P8L0605-DUP1)

Source: 8L04021-02

Prepared & Analyzed: 12/06/18

% Moisture	19.0	0.1	%		15.0			23.5	20	
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Duplicate (P8L0605-DUP2)

Source: 8L04026-01

Prepared & Analyzed: 12/06/18

% Moisture	2.0	0.1	%		2.0			0.00	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L0513 - TX 1005

Blank (P8L0513-BLK1)

Prepared & Analyzed: 12/05/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.7		"	100		89.7	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.7	70-130			

LCS (P8L0513-BS1)

Prepared & Analyzed: 12/05/18

C6-C12	862	25.0	mg/kg wet	1000		86.2	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

LCS Dup (P8L0513-BSD1)

Prepared & Analyzed: 12/05/18

C6-C12	905	25.0	mg/kg wet	1000		90.5	75-125	4.85	20	
>C12-C28	1080	25.0	"	1000		108	75-125	4.20	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.6	70-130			

Matrix Spike (P8L0513-MS1)

Source: 8L05004-04

Prepared: 12/05/18 Analyzed: 12/06/18

C6-C12	875	26.9	mg/kg dry	1080	24.6	79.1	75-125			
>C12-C28	1040	26.9	"	1080	ND	97.0	75-125			
Surrogate: 1-Chlorooctane	96.0		"	108		89.2	70-130			
Surrogate: o-Terphenyl	48.7		"	53.8		90.6	70-130			

Matrix Spike Dup (P8L0513-MSD1)

Source: 8L05004-04

Prepared: 12/05/18 Analyzed: 12/06/18

C6-C12	920	26.9	mg/kg dry	1080	24.6	83.3	75-125	5.16	20	
>C12-C28	1080	26.9	"	1080	ND	100	75-125	3.28	20	
Surrogate: 1-Chlorooctane	97.2		"	108		90.4	70-130			
Surrogate: o-Terphenyl	50.6		"	53.8		94.1	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 12/7/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Arson & Associates, Inc.
Environmental Consultants

507 N. Marientfield, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/5/18 PAGE 1 OF 1
PO#: LAB WORK ORDER# 5105001
PROJECT LOCATION OR NAME: 406 Sat 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CRB

CHAIN-OF-CUSTODY

No 0418

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
TIME ZONE: Time zone/State: <u>M5</u>					
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
5-7 (2)		12/4/16		5	
5-8 (2)					
5-9 (2)					
5-10 (2)					
5-11 (2)					
5-12 (2)					
5-13 (2)					
5-14 (2)					
5-15 (2)					
5-16 (2)					
5-17 (2)					
5-18 (2)					
5-19 (2)					
TOTAL					13
RELINQUISHED BY: (Signature) <u>W. J. Baker</u>		DATE/TIME <u>12/5/18 9:00 AM</u>			
RELINQUISHED BY: (Signature) <u>W. J. Baker</u>		RECEIVED BY: (Signature) <u>W. J. Baker</u>			
LABORATORY: <u>0052</u>		TURN AROUND TIME NORMAL ☐ 1 DAY ☒ 2 DAY ☐ OTHER ☐			
LABORATORY USE ONLY: RECEIVING TEMP: <u>-02</u> THERM: <u>+1</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # <u>13</u> HAND DELIVERED ☒		ANALYSES BTEX-MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TBLP - METALS (RCRA) ☐ TCLP VOC ☐ Semi-VOC ☐ OTHER LIST ☐ TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐ FIELD NOTES <u>M 300</u>			

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Location: New Mexico
Lab Order Number: 8L17004



NELAP/TCEQ # T104704516-17-8

Report Date: 12/18/18

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-4 (10')	8L17004-01	Soil	12/13/18 10:12	12-17-2018 11:10
S-9 (2')	8L17004-02	Soil	12/13/18 10:43	12-17-2018 11:10
S-13 (2')	8L17004-03	Soil	12/13/18 11:08	12-17-2018 11:10
S-1 (10')	8L17004-04	Soil	12/13/18 11:53	12-17-2018 11:10
S-1 (6')	8L17004-05	Soil	12/13/18 11:55	12-17-2018 11:10

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 (10')
8L17004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %		75-125	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.3 %		75-125	P8L1711	12/17/18	12/17/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1110	5.56	mg/kg dry	5	P8L1713	12/17/18	12/18/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8L1815	12/18/18	12/18/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C12-C28	36.3	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %		70-130	P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: o-Terphenyl		106 %		70-130	P8L1705	12/17/18	12/18/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	36.3	27.8	mg/kg dry	1	[CALC]	12/17/18	12/18/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-9 (2')
8L17004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.1 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.8 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	703	1.11	mg/kg dry	1	P8L1713	12/17/18	12/18/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8L1815	12/18/18	12/18/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/17/18	12/18/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-13 (2')
8L17004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.6 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	142	1.10	mg/kg dry	1	P8L1713	12/17/18	12/18/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8L1815	12/18/18	12/18/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: 1-Chlorooctane		95.1 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/17/18	12/18/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 (10')
8L17004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.3 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	821	5.49	mg/kg dry	5	P8L1713	12/17/18	12/18/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8L1815	12/18/18	12/18/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P8L1705	12/17/18	12/18/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/17/18	12/18/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 (6')
8L17004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.3 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.7 %	75-125		P8L1711	12/17/18	12/17/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	892	5.26	mg/kg dry	5	P8L1713	12/17/18	12/18/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8L1815	12/18/18	12/18/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	477	26.3	mg/kg dry	1	P8L1705	12/17/18	12/17/18	TPH 8015M	
>C12-C28	509	26.3	mg/kg dry	1	P8L1705	12/17/18	12/17/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8L1705	12/17/18	12/17/18	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P8L1705	12/17/18	12/17/18	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P8L1705	12/17/18	12/17/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	986	26.3	mg/kg dry	1	[CALC]	12/17/18	12/17/18	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L1711 - General Preparation (GC)

Blank (P8L1711-BLK1)		Prepared & Analyzed: 12/17/18								
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0500		"	0.0600		83.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0593		"	0.0600		98.9	75-125			

LCS (P8L1711-BS1)		Prepared & Analyzed: 12/17/18								
Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.109	0.0100	"	0.100		109	70-130			
Ethylbenzene	0.108	0.00500	"	0.100		108	70-130			
Xylene (p/m)	0.188	0.0200	"	0.200		94.2	70-130			
Xylene (o)	0.116	0.0100	"	0.100		116	70-130			
Surrogate: 4-Bromofluorobenzene	0.0621		"	0.0600		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.0617		"	0.0600		103	75-125			

LCS Dup (P8L1711-BSD1)		Prepared & Analyzed: 12/17/18								
Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	1.05	20	
Toluene	0.111	0.0100	"	0.100		111	70-130	1.58	20	
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130	1.50	20	
Xylene (p/m)	0.190	0.0200	"	0.200		95.0	70-130	0.819	20	
Xylene (o)	0.114	0.0100	"	0.100		114	70-130	1.44	20	
Surrogate: 4-Bromofluorobenzene	0.0572		"	0.0600		95.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0600		102	75-125			

Matrix Spike (P8L1711-MS1)		Source: 8L17004-01		Prepared: 12/17/18		Analyzed: 12/18/18				
Benzene	0.0880	0.00111	mg/kg dry	0.111	ND	79.2	80-120			QM-07
Toluene	0.0862	0.0111	"	0.111	ND	77.5	80-120			QM-07
Ethylbenzene	0.0823	0.00556	"	0.111	ND	74.0	80-120			QM-07
Xylene (p/m)	0.141	0.0222	"	0.222	ND	63.4	80-120			QM-07
Xylene (o)	0.0778	0.0111	"	0.111	ND	70.1	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.0689		"	0.0667		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.0662		"	0.0667		99.4	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L1711 - General Preparation (GC)

Matrix Spike Dup (P8L1711-MSD1)	Source: 8L17004-01			Prepared: 12/17/18		Analyzed: 12/18/18				
Benzene	0.0993	0.00111	mg/kg dry	0.111	ND	89.4	80-120	12.0	20	
Toluene	0.103	0.0111	"	0.111	ND	93.1	80-120	18.2	20	
Ethylbenzene	0.0982	0.00556	"	0.111	ND	88.3	80-120	17.6	20	
Xylene (p/m)	0.187	0.0222	"	0.222	ND	84.2	80-120	28.3	20	R3
Xylene (o)	0.0974	0.0111	"	0.111	ND	87.6	80-120	22.3	20	R3
Surrogate: 1,4-Difluorobenzene	0.0689		"	0.0667		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.0781		"	0.0667		117	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L1713 - * DEFAULT PREP *****

Blank (P8L1713-BLK1)

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride ND 1.00 mg/kg wet

LCS (P8L1713-BS1)

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride 407 1.00 mg/kg wet 400 102 80-120

LCS Dup (P8L1713-BSD1)

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride 408 1.00 mg/kg wet 400 102 80-120 0.00491 20

Duplicate (P8L1713-DUP1)

Source: 8L17003-01

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride 237 1.18 mg/kg dry 218 8.36 20

Duplicate (P8L1713-DUP2)

Source: 8L14009-09

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride 76.9 1.09 mg/kg dry 77.7 0.984 20

Matrix Spike (P8L1713-MS1)

Source: 8L17003-01

Prepared: 12/17/18 Analyzed: 12/18/18

Chloride 791 1.18 mg/kg dry 588 218 97.4 80-120

Batch P8L1815 - * DEFAULT PREP *****

Blank (P8L1815-BLK1)

Prepared & Analyzed: 12/18/18

% Moisture ND 0.1 %

Duplicate (P8L1815-DUP1)

Source: 8L17002-02

Prepared & Analyzed: 12/18/18

% Moisture 14.0 0.1 % 14.0 0.00 20

Duplicate (P8L1815-DUP2)

Source: 8L17006-15

Prepared & Analyzed: 12/18/18

% Moisture 19.0 0.1 % 19.0 0.00 20

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L1815 - *** DEFAULT PREP ***

Duplicate (P8L1815-DUP3)	Source: 8L17010-24			Prepared & Analyzed: 12/18/18						
% Moisture	5.0	0.1	%		8.0			46.2	20	
Duplicate (P8L1815-DUP4)	Source: 8L17010-33			Prepared & Analyzed: 12/18/18						
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8L1705 - TX 1005

Blank (P8L1705-BLK1)

Prepared: 12/17/18 Analyzed: 12/18/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	0.00		"	100			70-130			
Surrogate: o-Terphenyl	0.00		"	50.0			70-130			

LCS (P8L1705-BS1)

Prepared: 12/17/18 Analyzed: 12/18/18

C6-C12	ND	25.0	mg/kg wet	1000			75-125			
>C12-C28	ND	25.0	"	1000			75-125			
Surrogate: 1-Chlorooctane	0.00		"	100			70-130			
Surrogate: o-Terphenyl	0.00		"	50.0			70-130			

LCS Dup (P8L1705-BS1)

Prepared: 12/17/18 Analyzed: 12/18/18

C6-C12	ND	25.0	mg/kg wet	1000			75-125		20	
>C12-C28	ND	25.0	"	1000			75-125		20	
Surrogate: 1-Chlorooctane	0.00		"	100			70-130			
Surrogate: o-Terphenyl	0.00		"	50.0			70-130			

Matrix Spike (P8L1705-MS1)

Source: 8L17004-01

Prepared: 12/17/18 Analyzed: 12/18/18

C6-C12	ND	27.8	mg/kg dry	1110	11.0	NR	75-125			
>C12-C28	ND	27.8	"	1110	36.3	NR	75-125			
Surrogate: 1-Chlorooctane	0.00		"	111			70-130			
Surrogate: o-Terphenyl	0.00		"	55.6			70-130			

Matrix Spike Dup (P8L1705-MSD1)

Source: 8L17004-01

Prepared: 12/17/18 Analyzed: 12/18/18

C6-C12	ND	27.8	mg/kg dry	1110	11.0	NR	75-125		20	
>C12-C28	ND	27.8	"	1110	36.3	NR	75-125		20	
Surrogate: 1-Chlorooctane	0.00		"	111			70-130			
Surrogate: o-Terphenyl	0.00		"	55.6			70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 12/18/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Marson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/17/18 PAGE 1 OF 1
PO#: LAB WORK ORDER# 8217004
PROJECT LOCATION OR NAME: X-10 Sat. 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CJS

CHAIN-OF-CUSTODY

Nº 0421

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		8217004	
Field Sample I.O.		Lab #	Date	Time	Matrix	# of Containers		PRESENTATION HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED	
ANALYSES BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☒ TPH 1006 ☐ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8280 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TBLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RO ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐ N300		FIELD NOTES							
5-4 (10')	-01	12/13/18	10:12						
5-9 (2')	-02		10:43						
5-13 (2')	-03		11:08						
5-1 (10')	-04		11:53						
5-1 (6')	-05		11:55						
TOTAL						5	5	5	5

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)	TURN AROUND TIME NORMAL ☐ 1 DAY ☒ 2 DAY ☐ OTHER ☐	LABORATORY USE ONLY: RECEIVING TEMP: <u>38.4.8</u> THERM#: <u>12</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # <u>12/17/18 11:10</u> HAND DELIVERED ☐
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January 09, 2019

Mark Larson
Larson & Associates
507 N. Marienfeld #205
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: EMSU Sat #13

Order No.: 1901020

Dear Mark Larson:

DHL Analytical, Inc. received 2 sample(s) on 1/4/2019 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-18-21



2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

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507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 1/3/19 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: 1901020

PROJECT LOCATION OR NAME: EMS(1) Sat #13

LAI PROJECT #: 17-0193-01 COLLECTOR: KO/TO

Data Reported to:

[illegible]



WWW.LSO.COM
Questions? Call 800-800-8984



Airbill No. LSO065XP

LSO065XP

1. To: Print Name (Person) _____ Phone (Important) _____ Company Name _____ Street Address (No P.O. Box or P.O. Box Zip Code Deliveries) _____ Suite / Floor _____ City _____ State _____ Zip _____		2. From: Print Name (Person) _____ Phone (Important) _____ Company Name _____ Street Address _____ Suite / Floor _____ City _____ State _____ Zip _____	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. ☐ LSO Priority Overnight* By 10:30 a.m. to most cities ☐ LSO Early Overnight* By 8:30 a.m. select cities ☐ LSO Economy Next Day* By 3 p.m. to most cities ☐ LSO 2nd Day* ☐ Deliver Without Delivery Signature (See Limits of Liability below) Release Signature _____ L _____ x W _____ x H _____		4. Package: Weight: _____ Your Company's Billing Reference Information _____ Ship Date: (mm/dd/yy) 11/03/19 5. Payment: _____	
		FOR DRIVER USE ONLY Driver Number _____ ☐ Check here if LSO Supplies are used with LSO Ground Service. Pick-up Location _____ Date: _____ Time: _____ City Code: _____	

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072662

CUSTODY SI
DATE 1/3
SIGNATURE -4

QUALITY ENVIRONMENTAL CONTAINERS
800-255-3950 • 304-255-3900
1/3
Jensen

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Larson & Associates**Date Received: **1/4/2019**Work Order Number **1901020**Received by **EL**Checklist completed by: 

1/4/2019

Signature

Date

Reviewed by 

1/4/2019

Initials

Date

Carrier name **LoneStar**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	2.7 °C
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☒ LOT #
	Adjusted? _____		Checked by _____
Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☒ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.**Date:** 09-Jan-19**CLIENT:** Larson & Associates**Project:** EMSU Sat #13**Lab Order:** 1901020**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and E300.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Anions analysis by method E300 the matrix spike and matrix spike duplicate recoveries were slightly above control limits for Chloride. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.**Date:** 09-Jan-19

CLIENT: Larson & Associates
Project: EMSU Sat #13
Project No: 17-0193-01
Lab Order: 1901020

Client Sample ID: TMW-1
Lab ID: 1901020-01
Collection Date: 01/02/19 12:11 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE AROMATICS BY GC/MS		SW8260C					Analyst: BTJ
Benzene	<0.000800	0.000800	0.00200		mg/L	1	01/08/19 12:30 PM
Ethylbenzene	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:30 PM
Toluene	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:30 PM
Total Xylenes	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:30 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	01/08/19 12:30 PM
Surr: 4-Bromofluorobenzene	98.3	0	76-119		%REC	1	01/08/19 12:30 PM
Surr: Dibromofluoromethane	98.4	0	85-115		%REC	1	01/08/19 12:30 PM
Surr: Toluene-d8	95.8	0	81-120		%REC	1	01/08/19 12:30 PM
ANIONS BY IC METHOD - WATER		E300					Analyst: JL
Chloride	637	30.0	100		mg/L	100	01/04/19 01:43 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAC certified

DHL Analytical, Inc.**Date:** 09-Jan-19

CLIENT: Larson & Associates
Project: EMSU Sat #13
Project No: 17-0193-01
Lab Order: 1901020

Client Sample ID: TMW-2
Lab ID: 1901020-02
Collection Date: 01/02/19 01:15 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE AROMATICS BY GC/MS		SW8260C				Analyst: BTJ	
Benzene	<0.000800	0.000800	0.00200		mg/L	1	01/08/19 12:55 PM
Ethylbenzene	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:55 PM
Toluene	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:55 PM
Total Xylenes	<0.00200	0.00200	0.00600		mg/L	1	01/08/19 12:55 PM
Surr: 1,2-Dichloroethane-d4	106	0	72-119		%REC	1	01/08/19 12:55 PM
Surr: 4-Bromofluorobenzene	98.9	0	76-119		%REC	1	01/08/19 12:55 PM
Surr: Dibromofluoromethane	98.9	0	85-115		%REC	1	01/08/19 12:55 PM
Surr: Toluene-d8	95.7	0	81-120		%REC	1	01/08/19 12:55 PM
ANIONS BY IC METHOD - WATER		E300				Analyst: JL	
Chloride	4260	30.0	100		mg/L	100	01/04/19 02:09 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: 09-Jan-19

CLIENT: Larson & Associates

Work Order: 1901020

Project: EMSU Sat #13

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_190108A

The QC data in batch 88894 applies to the following samples: 1901020-01A, 1901020-02A

Sample ID	LCS-88894			Batch ID:	88894		TestNo:	SW8260C		Units:	mg/L	
SampType:	LCS			Run ID:	GCMS3_190108A		Analysis Date:	1/8/2019 9:54:00 AM		Prep Date:	1/8/2019	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Benzene	0.0439	0.00200	0.0464	0	94.7	81	122			
Ethylbenzene	0.0487	0.00600	0.0464	0	105	73	127			
Toluene	0.0442	0.00600	0.0464	0	95.2	77	122			
Total Xylenes	0.148	0.00600	0.139	0	106	80	121			
Surr: 1,2-Dichloroethane-d4	51.7		50.00		103	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.7	76	119			
Surr: Dibromofluoromethane	48.5		50.00		97.1	85	115			
Surr: Toluene-d8	48.4		50.00		96.7	81	120			

Sample ID	MB-88894	Batch ID:	88894	TestNo:	SW8260C	Units:	mg/L			
SampType:	MBLK	Run ID:	GCMS3_190108A	Analysis Date:	1/8/2019 10:20:00 AM	Prep Date:	1/8/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	52.0		50.00		104	72	119			
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	76	119			
Surr: Dibromofluoromethane	48.8		50.00		97.6	85	115			
Surr: Toluene-d8	48.1		50.00		96.2	81	120			

Sample ID	1901030-03AMS	Batch ID:	88894	TestNo:	SW8260C	Units:	mg/L			
SampType:	MS	Run ID:	GCMS3_190108A	Analysis Date:	1/8/2019 3:52:00 PM	Prep Date:	1/8/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.0412	0.00200	0.0464	0	88.8	81	122			
Ethylbenzene	0.0465	0.00600	0.0464	0	100	73	127			
Toluene	0.0410	0.00600	0.0464	0	88.3	77	122			
Total Xylenes	0.142	0.00600	0.139	0	102	80	121			
Surr: 1,2-Dichloroethane-d4	51.9		50.00		104	72	119			
Surr: 4-Bromofluorobenzene	48.9		50.00		97.9	76	119			
Surr: Dibromofluoromethane	48.8		50.00		97.7	85	115			
Surr: Toluene-d8	47.1		50.00		94.3	81	120			

Sample ID	1901030-03AMSD	Batch ID:	88894	TestNo:	SW8260C	Units:	mg/L			
SampType:	MSD	Run ID:	GCMS3_190108A	Analysis Date:	1/8/2019 4:18:00 PM	Prep Date:	1/8/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAC certified

Page 1 of 3

CLIENT: Larson & Associates

Work Order: 1901020

Project: EMSU Sat #13

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_190108A

Sample ID	1901030-03AMSD	Batch ID:	88894	TestNo:	SW8260C	Units:	mg/L			
SampType:	MSD	Run ID:	GCMS3_190108A	Analysis Date:	1/8/2019 4:18:00 PM	Prep Date:	1/8/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0418	0.00200	0.0464	0	90.1	81	122	1.45	20	
Ethylbenzene	0.0481	0.00600	0.0464	0	104	73	127	3.23	20	
Toluene	0.0419	0.00600	0.0464	0	90.3	77	122	2.23	20	
Total Xylenes	0.146	0.00600	0.139	0	105	80	121	2.78	20	
Surr: 1,2-Dichloroethane-d4	51.6		50.00		103	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	76	119	0	0	
Surr: Dibromofluoromethane	48.1		50.00		96.1	85	115	0	0	
Surr: Toluene-d8	47.0		50.00		94.1	81	120	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAC certified

Page 2 of 3

CLIENT: Larson & Associates
Work Order: 1901020
Project: EMSU Sat #13

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_190104A

The QC data in batch 88876 applies to the following samples: 1901020-01B, 1901020-02B

Sample ID	MB-88876	Batch ID:	88876	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_190104A	Analysis Date:	1/4/2019 11:00:05 AM	Prep Date:	1/4/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	<0.300	1.00								
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Sample ID	LCS-88876		Batch ID:	88876		TestNo:	E300		Units:	mg/L	
SampType:	LCS		Run ID:	IC2_190104A		Analysis Date:	1/4/2019 11:13:05 AM		Prep Date:	1/4/2019	
Analyte	Result		RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	10.3	1.00	10.00	0	103	90	110			
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Sample ID	LCSD-88876		Batch ID:	88876		TestNo:	E300		Units:	mg/L	
SampType:	LCSD		Run ID:	IC2_190104A		Analysis Date:	1/4/2019 11:26:05 AM		Prep Date:	1/4/2019	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	10.4	1.00	10.00	0	104	90	110	0.680	20	
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Sample ID	1901020-01BMS		Batch ID:	88876		TestNo:	E300		Units:	mg/L	
SampType:	MS		Run ID:	IC2_190104A		Analysis Date:	1/4/2019 12:11:58 PM		Prep Date:	1/4/2019	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	23400	1000	20000	764.8	113	90	110			S
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Sample ID	1901020-01BMSD	Batch ID:	88876	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_190104A	Analysis Date:	1/4/2019 12:24:58 PM	Prep Date:	1/4/2019			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	23200	1000	20000	764.8	112	90	110	0.918	20	S
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Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM

Project Number: 19-0193-01

Location: Lea Co, NM

Lab Order Number: 9C05001



NELAP/TCEQ # T104704516-18-9

Report Date: 03/06/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	9C05001-01	Soil	03/04/19 14:22	03-05-2019 08:44
S-2	9C05001-02	Soil	03/04/19 14:25	03-05-2019 08:44
S-3	9C05001-03	Soil	03/04/19 14:30	03-05-2019 08:44
S-4	9C05001-04	Soil	03/04/19 14:31	03-05-2019 08:44
S-5	9C05001-05	Soil	03/04/19 14:33	03-05-2019 08:44
S-6	9C05001-06	Soil	03/04/19 14:44	03-05-2019 08:44
S-7	9C05001-07	Soil	03/04/19 14:50	03-05-2019 08:44
S-8	9C05001-08	Soil	03/04/19 14:55	03-05-2019 08:44
S-9	9C05001-09	Soil	03/04/19 15:00	03-05-2019 08:44
S-10	9C05001-10	Soil	03/04/19 15:05	03-05-2019 08:44
S-11	9C05001-11	Soil	03/04/19 15:10	03-05-2019 08:44
S-12	9C05001-12	Soil	03/04/19 15:18	03-05-2019 08:44
S-13	9C05001-13	Soil	03/04/19 15:20	03-05-2019 08:44
S-14	9C05001-14	Soil	03/04/19 15:25	03-05-2019 08:44

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1
9C05001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %		75-125	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		74.9 %		75-125	P9C0517	03/05/19	03/05/19	EPA 8021B	S-09

General Chemistry Parameters by EPA / Standard Methods

Chloride	1220	5.49	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		98.2 %		70-130	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		122 %		70-130	P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2
9C05001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0233	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.0233	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.0233	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.0465	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.0233	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		69.0 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	S-09
Surrogate: 4-Bromofluorobenzene		85.4 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2960	11.6	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	332	29.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	48.7	29.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	381	29.1	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3
9C05001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00122	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		68.0 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	S-09
Surrogate: 4-Bromofluorobenzene		95.8 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1260	6.10	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	18.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	116	30.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	116	30.5	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4
9C05001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		78.3 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1710	11.5	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		87.3 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5
9C05001-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.4 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2430	11.2	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	11.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6
9C05001-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.6 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2650	11.9	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	36.9	29.8	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	36.9	29.8	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7
9C05001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.0222	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.0444	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.0222	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		69.1 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	S-09
Surrogate: 4-Bromofluorobenzene		95.9 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1210	5.56	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	244	139	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	4100	139	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	580	139	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		93.2 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4920	139	mg/kg dry	5	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8
9C05001-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0230	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	0.113	0.0230	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	0.514	0.0230	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	2.15	0.0460	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	1.30	0.0230	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1010	5.75	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2290	287	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	10100	287	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	1620	287	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	14000	287	mg/kg dry	10	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9
9C05001-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.332	0.0247	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	2.13	0.0247	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	4.27	0.0247	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	9.74	0.0494	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	5.06	0.0247	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.3 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1490	6.17	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	19.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	5570	309	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	13100	309	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	2440	309	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		124 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		108 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	21100	309	mg/kg dry	10	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: EMSU B Sat 13 Trunk Line/Lea Co NM	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-10
9C05001-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.118	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	0.727	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	1.26	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	3.95	0.0476	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	1.87	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.4 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1840	11.9	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	1720	149	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	5640	149	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	943	149	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8290	149	mg/kg dry	5	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11

9C05001-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	0.343	0.0241	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	0.554	0.0241	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	2.46	0.0482	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	1.24	0.0241	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.9 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.0 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1750	6.02	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1400	151	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	5130	151	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	902	151	mg/kg dry	5	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	7440	151	mg/kg dry	5	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12

9C05001-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	0.226	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	0.376	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	1.41	0.0476	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	1.28	0.0238	mg/kg dry	20	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.6 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.5 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1910	11.9	mg/kg dry	10	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3060	298	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	18800	298	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	2830	298	mg/kg dry	10	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	24700	298	mg/kg dry	10	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13

9C05001-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.1 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1090	5.43	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	457	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	63.3	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	521	27.2	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14

9C05001-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.2 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	75-125		P9C0517	03/05/19	03/05/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	972	5.43	mg/kg dry	5	P9C0504	03/05/19	03/06/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9C0605	03/06/19	03/06/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C12-C28	237	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
>C28-C35	38.0	27.2	mg/kg dry	1	P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P9C0505	03/05/19	03/05/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	275	27.2	mg/kg dry	1	[CALC]	03/05/19	03/05/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0517 - General Preparation (GC)

Blank (P9C0517-BLK1)

Prepared & Analyzed: 03/05/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0445		"	0.0600		74.2	75-125			S-09
Surrogate: 4-Bromofluorobenzene	0.0558		"	0.0600		93.0	75-125			

LCS (P9C0517-BS1)

Prepared & Analyzed: 03/05/19

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130			
Toluene	0.103	0.00100	"	0.100		103	70-130			
Ethylbenzene	0.0861	0.00100	"	0.100		86.1	70-130			
Xylene (p/m)	0.197	0.00200	"	0.200		98.4	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.0643		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.0600		106	75-125			

LCS Dup (P9C0517-BSD1)

Prepared & Analyzed: 03/05/19

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	4.32	20	
Toluene	0.106	0.00100	"	0.100		106	70-130	2.98	20	
Ethylbenzene	0.0866	0.00100	"	0.100		86.6	70-130	0.579	20	
Xylene (p/m)	0.197	0.00200	"	0.200		98.7	70-130	0.320	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	3.22	20	
Surrogate: 4-Bromofluorobenzene	0.0658		"	0.0600		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.0646		"	0.0600		108	75-125			

Calibration Blank (P9C0517-CCB1)

Prepared & Analyzed: 03/05/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0612		"	0.0600		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.0473		"	0.0600		78.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0517 - General Preparation (GC)

Calibration Blank (P9C0517-CCB2)

Prepared & Analyzed: 03/05/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0646		"	0.0600		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.0518		"	0.0600		86.4	75-125			

Calibration Check (P9C0517-CCV1)

Prepared & Analyzed: 03/05/19

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.0645		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0623		"	0.0600		104	75-125			

Calibration Check (P9C0517-CCV2)

Prepared & Analyzed: 03/05/19

Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.0664		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0655		"	0.0600		109	75-125			

Calibration Check (P9C0517-CCV3)

Prepared: 03/05/19 Analyzed: 03/06/19

Benzene	0.113	0.00100	mg/kg wet	0.100		113	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.3	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.0572		"	0.0600		95.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.0619		"	0.0600		103	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0517 - General Preparation (GC)

Matrix Spike (P9C0517-MS1)		Source: 9C05001-03			Prepared & Analyzed: 03/05/19					
Benzene	0.0424	0.00122	mg/kg dry	0.122	ND	34.8	80-120			QM-05
Toluene	0.0401	0.00122	"	0.122	ND	32.9	80-120			QM-05
Ethylbenzene	0.0455	0.00122	"	0.122	ND	37.3	80-120			QM-05
Xylene (p/m)	0.0761	0.00244	"	0.244	ND	31.2	80-120			QM-05
Xylene (o)	0.0350	0.00122	"	0.122	ND	28.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.0808		"	0.0732		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0897		"	0.0732		123	75-125			

Matrix Spike Dup (P9C0517-MSD1)		Source: 9C05001-03			Prepared & Analyzed: 03/05/19					
Benzene	0.0218	0.00122	mg/kg dry	0.122	ND	17.9	80-120	64.2	20	QM-05
Toluene	0.0138	0.00122	"	0.122	ND	11.3	80-120	97.7	20	QM-05
Ethylbenzene	0.00617	0.00122	"	0.122	ND	5.06	80-120	152	20	QM-05
Xylene (p/m)	0.00862	0.00244	"	0.244	ND	3.54	80-120	159	20	QM-05
Xylene (o)	0.00354	0.00122	"	0.122	ND	2.90	80-120	163	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0786		"	0.0732		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.0682		"	0.0732		93.2	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0504 - * DEFAULT PREP *****

Blank (P9C0504-BLK1)

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	ND	1.00	mg/kg wet							
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LCS (P9C0504-BS1)

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	ND	1.00	mg/kg wet	400			80-120			
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LCS Dup (P9C0504-BSD1)

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	ND	1.00	mg/kg wet	400			80-120		20	
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Duplicate (P9C0504-DUP1)

Source: 9C05001-01

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	1170	5.49	mg/kg dry		1220			3.87	20	
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Duplicate (P9C0504-DUP2)

Source: 9C05001-11

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	1750	6.02	mg/kg dry		1750			0.0137	20	
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Matrix Spike (P9C0504-MS1)

Source: 9C05001-01

Prepared: 03/05/19 Analyzed: 03/06/19

Chloride	2340	5.49	mg/kg dry	1100	1220	102	80-120			
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Batch P9C0605 - * DEFAULT PREP *****

Blank (P9C0605-BLK1)

Prepared & Analyzed: 03/06/19

% Moisture	ND	0.1	%							
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Duplicate (P9C0605-DUP1)

Source: 9C04002-26

Prepared & Analyzed: 03/06/19

% Moisture	15.0	0.1	%		16.0			6.45	20	
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Duplicate (P9C0605-DUP2)

Source: 9C05002-05

Prepared & Analyzed: 03/06/19

% Moisture	7.0	0.1	%		8.0			13.3	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: EMSU B Sat 13 Trunk Line/Lea Co NM	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9C0605 - *** DEFAULT PREP ***										
Duplicate (P9C0605-DUP3)		Source: 9C05010-06		Prepared & Analyzed: 03/06/19						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P9C0605-DUP4)		Source: 9C05014-06		Prepared & Analyzed: 03/06/19						
% Moisture	18.0	0.1	%		12.0			40.0	20	
Duplicate (P9C0605-DUP5)		Source: 9C05016-13		Prepared & Analyzed: 03/06/19						
% Moisture	12.0	0.1	%		13.0			8.00	20	
Duplicate (P9C0605-DUP6)		Source: 9C05017-16		Prepared & Analyzed: 03/06/19						
% Moisture	17.0	0.1	%		17.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0505 - TX 1005

Blank (P9C0505-BLK1)

Prepared & Analyzed: 03/05/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	64.1		"	50.0		128	70-130			

LCS (P9C0505-BS1)

Prepared & Analyzed: 03/05/19

C6-C12	1090	25.0	mg/kg wet	1000		109	75-125			
>C12-C28	942	25.0	"	1000		94.2	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

LCS Dup (P9C0505-BSD1)

Prepared & Analyzed: 03/05/19

C6-C12	1060	25.0	mg/kg wet	1000		106	75-125	2.92	20	
>C12-C28	920	25.0	"	1000		92.0	75-125	2.29	20	
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

Calibration Blank (P9C0505-CCB1)

Prepared & Analyzed: 03/05/19

C6-C12	11.4		mg/kg wet							
>C12-C28	10.7		"							
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	78.1		"	50.0		156	70-130			S-09

Calibration Blank (P9C0505-CCB2)

Prepared & Analyzed: 03/05/19

C6-C12	5.15		mg/kg wet							
>C12-C28	17.2		"							
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	79.2		"	50.0		158	70-130			S-09

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: EMSU B Sat 13 Trunk Line/Lea Co NM	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C0505 - TX 1005

Calibration Check (P9C0505-CCV1)				Prepared & Analyzed: 03/05/19						
C6-C12	963	25.0	mg/kg wet	1000		96.3	85-115			
>C12-C28	898	25.0	"	1000		89.8	85-115			
Surrogate: 1-Chlorooctane	214		"	200		107	70-130			
Surrogate: o-Terphenyl	110		"	100		110	70-130			
Calibration Check (P9C0505-CCV2)				Prepared & Analyzed: 03/05/19						
C6-C12	1000	25.0	mg/kg wet	1000		100	85-115			
>C12-C28	893	25.0	"	1000		89.3	85-115			
Surrogate: 1-Chlorooctane	224		"	200		112	70-130			
Surrogate: o-Terphenyl	118		"	100		118	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: EMSU B Sat 13 Trunk Line/Lea Co NM
Project Number: 19-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-09 Surrogate recovery limits have been exceeded.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 3/6/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Marson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:
Mtn/ NM

9C 05001

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
5-1	-01	3/4/19	14:22	S	1						BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	
5-2	-02		14:25		1						GASOLINE MOD 8015 ☐	Sample 14:31
5-3	-03		14:30		1						DIESEL - MOD 8015 ☐	Sample 14:33
5-4	-04		14:31		1						OIL - MOD 8015 ☐	Sample 14:44
5-5	-05		14:33		1						VOC 8260 ☐	Sample 14:44
5-6	-06		14:44		1						SVOC 8270 ☐	
5-7	-07		14:50		1						8081 PESTICIDES ☐	
5-8	-08		14:55		1						8082 PESTICIDES ☐	
5-9	-09		15:00		1						TBLP - METALS (RCRA) ☐	
5-10	-10		15:05		1						TCLP - METALS (RCRA) ☐	
5-11	-11		15:10		1						8151 HERBICIDES ☐	
5-12	-12		15:18		1						TCLP - PEST ☐ HERB ☐ Sem-VOC ☐	
5-13	-13		15:20		1						TOTAL METALS (RCRA) ☐ OTHER LIST ☐	
5-14	-14		15:25		1						LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	
TOTAL											RO ☐ TOX ☐ FLASHPOINT ☐	
											TDS ☐ TSS ☐ % MOISTURE ☐	
											pH ☐ HEXAVALENT CHROMIUM ☐	
											EXPLOSIVES ☐ PECHLORATE ☐	
											CHLORIDE ANIONS ☐ ALKALINITY ☐	

DATE: 3-5-2019
PO#:
PROJECT LOCATION OR NAME: EMS b Sat 13/14/19 Cg 1
LAI PROJECT #: 19-0193-01
COLLECTOR: H

CHAIN-OF-CUSTODY

Nº 0278

Page 25 of 25

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO EMSU Sat 13

Project Number: 17-0193-01

Location: None Given

Lab Order Number: 9C11004



NELAP/TCEQ # T104704516-18-9

Report Date: 03/19/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-2 (6')	9C11004-01	Soil	03/08/19 10:21	03-11-2019 08:45
S-7 (7')	9C11004-02	Soil	03/08/19 09:11	03-11-2019 08:45
S-8 (11')	9C11004-03	Soil	03/08/19 09:18	03-11-2019 08:45
S-8 (12')	9C11004-04	Soil	03/08/19 09:34	03-11-2019 08:45
S-9 (12')	9C11004-05	Soil	03/08/19 09:43	03-11-2019 08:45
S-9 (13')	9C11004-06	Soil	03/08/19 09:47	03-11-2019 08:45
S-10 (12')	9C11004-07	Soil	03/08/19 10:45	03-11-2019 08:45
S-10 (13')	9C11004-08	Soil	03/08/19 10:48	03-11-2019 08:45
S-11 (13')	9C11004-09	Soil	03/08/19 10:37	03-11-2019 08:45
S-11 (16')	9C11004-10	Soil	03/08/19 10:38	03-11-2019 08:45
S-12 (12')	9C11004-11	Soil	03/08/19 10:25	03-11-2019 08:45
S-12 (13')	9C11004-12	Soil	03/08/19 10:28	03-11-2019 08:45
S-13 (11')	9C11004-13	Soil	03/08/19 10:18	03-11-2019 08:45
S-13 (12')	9C11004-14	Soil	03/08/19 10:20	03-11-2019 08:45
S-14 (11')	9C11004-15	Soil	03/08/19 10:15	03-11-2019 08:45

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-2 (6')
9C11004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1050	5.56	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
>C12-C28	104	27.8	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	104	27.8	mg/kg dry	1	[CALC]	03/14/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-7 (7')
9C11004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1330	5.62	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	11.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	54.5	28.1	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
>C12-C28	89.3	28.1	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	144	28.1	mg/kg dry	1	[CALC]	03/14/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 (11')
9C11004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	477	6.58	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0
% Moisture	24.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	79.5	32.9	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M
>C12-C28	696	32.9	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M
>C28-C35	102	32.9	mg/kg dry	1	P9C1405	03/14/19	03/15/19	TPH 8015M
Surrogate: 1-Chlorooctane		108 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M
Surrogate: o-Terphenyl		119 %	70-130		P9C1405	03/14/19	03/15/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	877	32.9	mg/kg dry	1	[CALC]	03/14/19	03/15/19	calc

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-8 (12')
9C11004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	826	11.8	mg/kg dry	10	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	15.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C12-C28	72.5	29.4	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	72.5	29.4	mg/kg dry	1	[CALC]	03/15/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-9 (12')
9C11004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1150	5.81	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1180	145	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C12-C28	2840	145	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C28-C35	479	145	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4500	145	mg/kg dry	5	[CALC]	03/15/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-9 (13')
9C11004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	810	1.15	mg/kg dry	1	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	92.3	28.7	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C12-C28	205	28.7	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C28-C35	38.1	28.7	mg/kg dry	1	P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	336	28.7	mg/kg dry	1	[CALC]	03/15/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-10 (12')
9C11004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	888	1.30	mg/kg dry	1	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	23.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	533	162	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C12-C28	1100	162	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
>C28-C35	186	162	mg/kg dry	5	P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P9C1507	03/15/19	03/15/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1820	162	mg/kg dry	5	[CALC]	03/15/19	03/15/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-10 (13')
9C11004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1780	5.88	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	15.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	30.2	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	41.5	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	71.7	29.4	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-11 (13')
9C11004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1580	5.88	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	15.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	304	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	1070	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	164	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1540	29.4	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-11 (16')
9C11004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	2190	8.20	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	39.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1010	205	mg/kg dry	5	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	3470	205	mg/kg dry	5	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	530	205	mg/kg dry	5	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5010	205	mg/kg dry	5	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-12 (12')
9C11004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1720	5.88	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	15.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	164	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	1290	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	189	29.4	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1640	29.4	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-12 (13')
9C11004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	2470	13.2	mg/kg dry	10	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	24.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	57.3	32.9	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	57.3	32.9	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-13 (11')
9C11004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	477	1.20	mg/kg dry	1	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-13 (12')
9C11004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1120	5.81	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P9C1507	03/15/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	03/15/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-14 (11')
9C11004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	809	5.43	mg/kg dry	5	P9C1505	03/15/19	03/18/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9C1202	03/12/19	03/12/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9C1605	03/16/19	03/16/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9C1605	03/16/19	03/16/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9C1605	03/16/19	03/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-130		P9C1605	03/16/19	03/16/19	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-130		P9C1605	03/16/19	03/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/16/19	03/16/19	calc	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9C1202 - *** DEFAULT PREP ***										
Blank (P9C1202-BLK1)				Prepared & Analyzed: 03/12/19						
% Moisture	ND	0.1	%							
Duplicate (P9C1202-DUP1)				Source: 9C08007-26 Prepared & Analyzed: 03/12/19						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P9C1202-DUP2)				Source: 9C08007-53 Prepared & Analyzed: 03/12/19						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P9C1202-DUP3)				Source: 9C08008-08 Prepared & Analyzed: 03/12/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9C1202-DUP4)				Source: 9C08012-02 Prepared & Analyzed: 03/12/19						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P9C1202-DUP5)				Source: 9C11001-04 Prepared & Analyzed: 03/12/19						
% Moisture	12.0	0.1	%		10.0			18.2	20	
Duplicate (P9C1202-DUP6)				Source: 9C11004-14 Prepared & Analyzed: 03/12/19						
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P9C1202-DUP7)				Source: 9C11005-06 Prepared & Analyzed: 03/12/19						
% Moisture	12.0	0.1	%		10.0			18.2	20	
Duplicate (P9C1202-DUP8)				Source: 9C11013-03 Prepared & Analyzed: 03/12/19						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P9C1202-DUP9)				Source: 9C11015-06 Prepared & Analyzed: 03/12/19						
% Moisture	16.0	0.1	%		14.0			13.3	20	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9C1505 - *** DEFAULT PREP ***										
Blank (P9C1505-BLK1)				Prepared: 03/15/19 Analyzed: 03/18/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9C1505-BS1)				Prepared: 03/15/19 Analyzed: 03/18/19						
Chloride	408	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P9C1505-BSD1)				Prepared: 03/15/19 Analyzed: 03/18/19						
Chloride	392	1.00	mg/kg wet	400		98.1	80-120	3.83	20	
Duplicate (P9C1505-DUP1)				Source: 9C08011-03		Prepared: 03/15/19 Analyzed: 03/18/19				
Chloride	13500	59.5	mg/kg dry		14000			3.81	20	
Duplicate (P9C1505-DUP2)				Source: 9C11004-06		Prepared: 03/15/19 Analyzed: 03/18/19				
Chloride	1740	1.15	mg/kg dry		810			73.0	20	R3
Matrix Spike (P9C1505-MS1)				Source: 9C08011-03		Prepared: 03/15/19 Analyzed: 03/18/19				
Chloride	20400	59.5	mg/kg dry	5950	14000	108	80-120			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C1405 - TX 1005

Blank (P9C1405-BLK1)

Prepared & Analyzed: 03/14/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.8	70-130			

LCS (P9C1405-BS1)

Prepared & Analyzed: 03/14/19

C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125			
>C12-C28	936	25.0	"	1000		93.6	75-125			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	50.1		"	50.0		100	70-130			

LCS Dup (P9C1405-BSD1)

Prepared & Analyzed: 03/14/19

C6-C12	915	25.0	mg/kg wet	1000		91.5	75-125	8.30	20	
>C12-C28	946	25.0	"	1000		94.6	75-125	0.994	20	
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.2	70-130			

Calibration Blank (P9C1405-CCB1)

Prepared & Analyzed: 03/14/19

C6-C12	15.2		mg/kg wet							
>C12-C28	8.26		"							
Surrogate: 1-Chlorooctane	98.7		"	100		98.7	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Calibration Blank (P9C1405-CCB2)

Prepared: 03/14/19 Analyzed: 03/15/19

C6-C12	14.3		mg/kg wet							
>C12-C28	14.0		"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C1405 - TX 1005

Calibration Check (P9C1405-CCV1)

Prepared & Analyzed: 03/14/19

C6-C12	565	25.0	mg/kg wet	500		113	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

Calibration Check (P9C1405-CCV2)

Prepared: 03/14/19 Analyzed: 03/15/19

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	518	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			

Calibration Check (P9C1405-CCV3)

Prepared: 03/14/19 Analyzed: 03/15/19

C6-C12	506	25.0	mg/kg wet	500		101	85-115			
>C12-C28	502	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Matrix Spike (P9C1405-MS1)

Source: 9C11004-02

Prepared: 03/14/19 Analyzed: 03/15/19

C6-C12	1010	28.1	mg/kg dry	1120	54.5	84.8	75-125			
>C12-C28	1320	28.1	"	1120	89.3	110	75-125			
Surrogate: 1-Chlorooctane	114		"	112		101	70-130			
Surrogate: o-Terphenyl	56.0		"	56.2		99.7	70-130			

Matrix Spike Dup (P9C1405-MSD1)

Source: 9C11004-02

Prepared: 03/14/19 Analyzed: 03/15/19

C6-C12	948	28.1	mg/kg dry	1120	54.5	79.5	75-125	6.39	20	
>C12-C28	1300	28.1	"	1120	89.3	107	75-125	2.25	20	
Surrogate: 1-Chlorooctane	110		"	112		98.0	70-130			
Surrogate: o-Terphenyl	55.9		"	56.2		99.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C1507 - TX 1005

Blank (P9C1507-BLK1)

Prepared & Analyzed: 03/15/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			

LCS (P9C1507-BS1)

Prepared & Analyzed: 03/15/19

C6-C12	897	25.0	mg/kg wet	1000		89.7	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

LCS Dup (P9C1507-BSD1)

Prepared & Analyzed: 03/15/19

C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125	2.16	20	
>C12-C28	1170	25.0	"	1000		117	75-125	2.79	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			

Calibration Blank (P9C1507-CCB1)

Prepared & Analyzed: 03/15/19

C6-C12	8.54		mg/kg wet							
>C12-C28	10.1		"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Calibration Blank (P9C1507-CCB2)

Prepared & Analyzed: 03/15/19

C6-C12	11.9		mg/kg wet							
>C12-C28	8.40		"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	62.3		"	50.0		125	70-130			

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C1507 - TX 1005

Calibration Check (P9C1507-CCV1)

Prepared & Analyzed: 03/15/19

C6-C12	488	25.0	mg/kg wet	500		97.5	85-115			
>C12-C28	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	93.8		"	100		93.8	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.1	70-130			

Calibration Check (P9C1507-CCV2)

Prepared & Analyzed: 03/15/19

C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	541	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	97.1		"	100		97.1	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Calibration Check (P9C1507-CCV3)

Prepared: 03/15/19 Analyzed: 03/16/19

C6-C12	474	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	99.6		"	100		99.6	70-130			
Surrogate: o-Terphenyl	52.4		"	50.0		105	70-130			

Matrix Spike (P9C1507-MS1)

Source: 9C15004-06

Prepared: 03/15/19 Analyzed: 03/16/19

C6-C12	982	27.2	mg/kg dry	1090	24.3	88.1	75-125			
>C12-C28	1290	27.2	"	1090	ND	119	75-125			
Surrogate: 1-Chlorooctane	116		"	109		107	70-130			
Surrogate: o-Terphenyl	62.3		"	54.3		115	70-130			

Matrix Spike Dup (P9C1507-MSD1)

Source: 9C15004-06

Prepared: 03/15/19 Analyzed: 03/16/19

C6-C12	984	27.2	mg/kg dry	1090	24.3	88.3	75-125	0.255	20	
>C12-C28	1330	27.2	"	1090	ND	123	75-125	3.22	20	
Surrogate: 1-Chlorooctane	118		"	109		108	70-130			
Surrogate: o-Terphenyl	70.3		"	54.3		129	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9C1605 - TX 1005										
Blank (P9C1605-BLK1)										
Prepared & Analyzed: 03/16/19										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	67.4		"	50.0		135	70-130			S-GC
LCS (P9C1605-BS1)										
Prepared & Analyzed: 03/16/19										
C6-C12	864	25.0	mg/kg wet	1000		86.4	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	67.4		"	50.0		135	70-130			S-GC
LCS Dup (P9C1605-BSD1)										
Prepared & Analyzed: 03/16/19										
C6-C12	849	25.0	mg/kg wet	1000		84.9	75-125	1.76	20	
>C12-C28	1060	25.0	"	1000		106	75-125	4.54	20	
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	65.5		"	50.0		131	70-130			S-GC
Calibration Blank (P9C1605-CCB1)										
Prepared: 03/16/19 Analyzed: 03/17/19										
C6-C12	10.1		mg/kg wet							
>C12-C28	17.8		"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	65.1		"	50.0		130	70-130			
Calibration Check (P9C1605-CCV1)										
Prepared: 03/16/19 Analyzed: 03/17/19										
C6-C12	890	25.0	mg/kg wet	1000		89.0	85-115			
>C12-C28	861	25.0	"	1000		86.1	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	63.0		"	50.0		126	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9C1605 - TX 1005

Calibration Check (P9C1605-CCV3)				Prepared: 03/16/19 Analyzed: 03/17/19						
C6-C12	982	25.0	mg/kg wet	1000		98.2	85-115			
>C12-C28	897	25.0	"	1000		89.7	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.9		"	50.0		128	70-130			
Matrix Spike (P9C1605-MS1)				Source: 9C11009-01 Prepared: 03/16/19 Analyzed: 03/17/19						
C6-C12	891	26.3	mg/kg dry	1050	ND	84.6	75-125			
>C12-C28	1210	26.3	"	1050	370	80.0	75-125			
Surrogate: 1-Chlorooctane	123		"	105		117	70-130			
Surrogate: o-Terphenyl	59.5		"	52.6		113	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 3/19/2019

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 5/11/73 PAGE 1 OF 1
PO#: LAB WORK ORDER#: 9211004
PROJECT LOCATION OR NAME: XTD EMSU Sat #13
LAI PROJECT #: 17-0193-01 COLLECTOR: TD/ML

CHAIN-OF-CUSTODY

Field Sample I.D.	Lab #	Date	Time	Matrix	# of C	HCl	HNO ₃	H ₂ SO ₄	ICE	UNPR
----------------------	-------	------	------	--------	--------	-----	------------------	--------------------------------	-----	------

S-2 (C')	3/8/19	10:21	S	1	X	XXX	X
S-7 (7')		9:11					
S-8 (11')		9:18					
S-8 (12')		9:34					
S-9 (12')		9:43					
S-9 (13')		9:47					
S-10 (12')		10:45					
S-10 (13')		10:48					
S-11 (13')		10:37					
S-11 (14')		10:38					
S-12 (12')		10:25					
S-12 (13')		10:28					
S-13 (11')		10:18					
S-13 (12')		10:20					
S-14 (11')		10:15					
TOTAL		15					

—

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

DATE/TIME RECEIVED BY: (Signature)
3-11-98 8:45 Ashley Meyer

☒ NORMAL

THEIR#

CUSTODY SEALS - ☒ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☒ HAND DELIVERED

HAND DELIVERED

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO ESMU Sat 13

Project Number: 17-0193-01

Location:

Lab Order Number: 9E08001



NELAP/TCEQ # T104704516-18-9

Report Date: 05/10/19

Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-9 (18')	9E08001-01	Soil	05/07/19 13:09	05-08-2019 08:42
S-9 East (9')	9E08001-02	Soil	05/07/19 13:10	05-08-2019 08:42
S-9 West (9')	9E08001-03	Soil	05/07/19 13:11	05-08-2019 08:42

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 (18')
9E08001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %		75-125	P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %		75-125	P9E0812	05/08/19	05/08/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	727	1.11	mg/kg dry	1	P9E0810	05/08/19	05/08/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E0904	05/09/19	05/09/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %		70-130	P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: o-Terphenyl		109 %		70-130	P9E0801	05/08/19	05/08/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/08/19	05/08/19	calc	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 East (9')
9E08001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P9E0812	05/08/19	05/08/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1120	5.56	mg/kg dry	5	P9E0810	05/08/19	05/08/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E0904	05/09/19	05/09/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C12-C28	61.0	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P9E0801	05/08/19	05/08/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	61.0	27.8	mg/kg dry	1	[CALC]	05/08/19	05/08/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 West (9')
9E08001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.1 %	75-125		P9E0812	05/08/19	05/08/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.2 %	75-125		P9E0812	05/08/19	05/08/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	659	1.15	mg/kg dry	1	P9E0810	05/08/19	05/08/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9E0904	05/09/19	05/09/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P9E0801	05/08/19	05/08/19	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P9E0801	05/08/19	05/08/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	05/08/19	05/08/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0812 - General Preparation (GC)

Blank (P9E0812-BLK1)

Prepared & Analyzed: 05/08/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0559		"	0.0600		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0540		"	0.0600		89.9	75-125			

LCS (P9E0812-BS1)

Prepared & Analyzed: 05/08/19

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.119	0.00100	"	0.100		119	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.230	0.00200	"	0.200		115	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	0.0637		"	0.0600		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0610		"	0.0600		102	75-125			

LCS Dup (P9E0812-BSD1)

Prepared & Analyzed: 05/08/19

Benzene	0.120	0.00100	mg/kg wet	0.100		120	70-130	1.08	20	
Toluene	0.119	0.00100	"	0.100		119	70-130	0.689	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130	0.795	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	70-130	2.45	20	
Xylene (o)	0.115	0.00100	"	0.100		115	70-130	1.87	20	
Surrogate: 1,4-Difluorobenzene	0.0663		"	0.0600		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0592		"	0.0600		98.6	75-125			

Calibration Blank (P9E0812-CCB1)

Prepared & Analyzed: 05/08/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0601		"	0.0600		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.0545		"	0.0600		90.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0812 - General Preparation (GC)

Calibration Check (P9E0812-CCV1)		Prepared & Analyzed: 05/08/19								
Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.0584		"	0.0600		97.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0630		"	0.0600		105	75-125			

Calibration Check (P9E0812-CCV2)		Prepared & Analyzed: 05/08/19								
Benzene	0.116	0.00100	mg/kg wet	0.100		116	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		107	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.0570		"	0.0600		95.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.0586		"	0.0600		97.6	75-125			

Matrix Spike (P9E0812-MS1)		Source: 9E08009-01		Prepared & Analyzed: 05/08/19						
Benzene	0.103	0.00102	mg/kg dry	0.102	ND	101	80-120			
Toluene	0.0811	0.00102	"	0.102	ND	79.5	80-120			QM-07
Ethylbenzene	0.0864	0.00102	"	0.102	ND	84.7	80-120			
Xylene (p/m)	0.144	0.00204	"	0.204	ND	70.4	80-120			QM-07
Xylene (o)	0.0810	0.00102	"	0.102	ND	79.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0635		"	0.0612		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.0868		"	0.0612		142	75-125			S-GC

Matrix Spike Dup (P9E0812-MSD1)		Source: 9E08009-01		Prepared & Analyzed: 05/08/19						
Benzene	0.0743	0.00102	mg/kg dry	0.102	ND	72.8	80-120	32.4	20	QM-07, R2
Toluene	0.0615	0.00102	"	0.102	ND	60.2	80-120	27.6	20	QM-07, R2
Ethylbenzene	0.0629	0.00102	"	0.102	ND	61.6	80-120	31.6	20	QM-07, R2
Xylene (p/m)	0.120	0.00204	"	0.204	ND	58.9	80-120	17.8	20	QM-07
Xylene (o)	0.0564	0.00102	"	0.102	ND	55.3	80-120	35.7	20	QM-07, R2
Surrogate: 4-Bromofluorobenzene	0.0685		"	0.0612		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0796		"	0.0612		130	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0810 - * DEFAULT PREP *****

Blank (P9E0810-BLK1)

Prepared & Analyzed: 05/08/19

Chloride	ND	1.00	mg/kg wet
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LCS (P9E0810-BS1)

Prepared & Analyzed: 05/08/19

Chloride	413	1.00	mg/kg wet	400	103	80-120
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LCS Dup (P9E0810-BSD1)

Prepared & Analyzed: 05/08/19

Chloride	417	1.00	mg/kg wet	400	104	80-120	0.954	20
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Calibration Blank (P9E0810-CCB1)

Prepared & Analyzed: 05/08/19

Chloride	0.00		mg/kg wet
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Calibration Blank (P9E0810-CCB2)

Prepared & Analyzed: 05/08/19

Chloride	0.00		mg/kg wet
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Calibration Check (P9E0810-CCV1)

Prepared & Analyzed: 05/08/19

Chloride	20.7	0.100	mg/kg wet	20.0	103	0-200
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Calibration Check (P9E0810-CCV2)

Prepared & Analyzed: 05/08/19

Chloride	20.4	0.100	mg/kg wet	20.0	102	0-200
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Calibration Check (P9E0810-CCV3)

Prepared: 05/08/19 Analyzed: 05/09/19

Chloride	21.0	0.100	mg/kg wet	20.0	105	0-200
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Matrix Spike (P9E0810-MS1)

Source: 9E08001-01

Prepared & Analyzed: 05/08/19

Chloride	1260	1.11	mg/kg dry	556	727	95.4	80-120
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Matrix Spike (P9E0810-MS2)

Source: 9E04004-03

Prepared: 05/08/19 Analyzed: 05/09/19

Chloride	1490	5.56	mg/kg dry	556	897	107	80-120
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0810 - * DEFAULT PREP *****

Matrix Spike Dup (P9E0810-MSD1)	Source: 9E08001-01		Prepared & Analyzed: 05/08/19							
Chloride	1350	1.11	mg/kg dry	556	727	112	80-120	7.22	20	

Matrix Spike Dup (P9E0810-MSD2)	Source: 9E04004-03		Prepared: 05/08/19 Analyzed: 05/09/19							
Chloride	1490	5.56	mg/kg dry	556	897	108	80-120	0.0892	20	

Batch P9E0904 - * DEFAULT PREP *****

Blank (P9E0904-BLK1)	Prepared & Analyzed: 05/09/19									
% Moisture	ND	0.1	%							

Duplicate (P9E0904-DUP1)	Source: 9E07002-11		Prepared & Analyzed: 05/09/19							
% Moisture	10.0	0.1	%		11.0			9.52	20	

Duplicate (P9E0904-DUP2)	Source: 9E07009-05		Prepared & Analyzed: 05/09/19							
% Moisture	5.0	0.1	%		4.0			22.2	20	

Duplicate (P9E0904-DUP3)	Source: 9E07010-05		Prepared & Analyzed: 05/09/19							
% Moisture	4.0	0.1	%		4.0			0.00	20	

Duplicate (P9E0904-DUP4)	Source: 9E08009-01		Prepared & Analyzed: 05/09/19							
% Moisture	3.0	0.1	%		2.0			40.0	20	

Duplicate (P9E0904-DUP5)	Source: 9E08012-13		Prepared & Analyzed: 05/09/19							
% Moisture	11.0	0.1	%		11.0			0.00	20	

Duplicate (P9E0904-DUP6)	Source: 9E08012-19		Prepared & Analyzed: 05/09/19							
% Moisture	11.0	0.1	%		11.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0801 - TX 1005

Blank (P9E0801-BLK1)

Prepared & Analyzed: 05/08/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	61.8		"	50.0		124	70-130			

LCS (P9E0801-BS1)

Prepared & Analyzed: 05/08/19

C6-C12	1180	25.0	mg/kg wet	1000		118	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

LCS Dup (P9E0801-BSD1)

Prepared & Analyzed: 05/08/19

C6-C12	1120	25.0	mg/kg wet	1000		112	75-125	5.07	20	
>C12-C28	1160	25.0	"	1000		116	75-125	2.27	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	51.4		"	50.0		103	70-130			

Calibration Blank (P9E0801-CCB1)

Prepared & Analyzed: 05/08/19

C6-C12	15.6		mg/kg wet							
>C12-C28	7.31		"							
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9E0801-CCB2)

Prepared & Analyzed: 05/08/19

C6-C12	8.15		mg/kg wet							
>C12-C28	22.7		"							
Surrogate: 1-Chlorooctane	90.5		"	100		90.5	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.7	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0801 - TX 1005

Calibration Check (P9E0801-CCV1)

Prepared & Analyzed: 05/08/19

C6-C12	539	25.0	mg/kg wet	500		108	85-115			
>C12-C28	522	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Calibration Check (P9E0801-CCV2)

Prepared & Analyzed: 05/08/19

C6-C12	522	25.0	mg/kg wet	500		104	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.4	70-130			

Calibration Check (P9E0801-CCV3)

Prepared & Analyzed: 05/08/19

C6-C12	559	25.0	mg/kg wet	500		112	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	96.7		"	100		96.7	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			

Duplicate (P9E0801-DUP1)

Source: 9E06004-06

Prepared & Analyzed: 05/08/19

C6-C12	ND	27.8	mg/kg dry		12.1				20	
>C12-C28	ND	27.8	"		ND				20	
Surrogate: 1-Chlorooctane	110		"	111		98.6	70-130			
Surrogate: o-Terphenyl	60.1		"	55.6		108	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R2 The RPD exceeded the acceptance limit.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/10/2019

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.

Project: XTO ESMU Sat 13

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 17-0193-01

Midland TX, 79710

Project Manager: Mark Larson

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO EMSU Sat 13

Project Number: 17-0193-01

Location:

Lab Order Number: 9E09003



NELAP/TCEQ # T104704516-18-9

Report Date: 05/10/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-8 (13')	9E09003-01	Soil	05/08/19 07:46	05-09-2019 09:16
S-8 North (6.5')	9E09003-02	Soil	05/08/19 07:53	05-09-2019 09:16
S-8 South (6.5')	9E09003-03	Soil	05/08/19 07:57	05-09-2019 09:16
S-13 (11')	9E09003-04	Soil	05/08/19 11:01	05-09-2019 09:16
S-14 (11')	9E09003-05	Soil	05/08/19 11:05	05-09-2019 09:16
S-14 North (5.5')	9E09003-06	Soil	05/08/19 11:07	05-09-2019 09:16
S-14 South (5.5')	9E09003-07	Soil	05/08/19 11:09	05-09-2019 09:16
S-14 East (5.5')	9E09003-08	Soil	05/08/19 11:12	05-09-2019 09:16
S-12 (14')	9E09003-09	Soil	05/08/19 12:59	05-09-2019 09:16
S-12 North (7')	9E09003-10	Soil	05/08/19 13:19	05-09-2019 09:16
S-7 (12')	9E09003-11	Soil	05/08/19 14:07	05-09-2019 09:16
S-7 South (6')	9E09003-12	Soil	05/08/19 14:12	05-09-2019 09:16
S-7 North (6')	9E09003-13	Soil	05/08/19 14:14	05-09-2019 09:16
S-7 West (6')	9E09003-14	Soil	05/08/19 14:24	05-09-2019 09:16
S-2 (6.5')	9E09003-15	Soil	05/08/19 14:32	05-09-2019 09:16
S-2 South (3')	9E09003-16	Soil	05/08/19 14:42	05-09-2019 09:16
S-2 West (3')	9E09003-17	Soil	05/08/19 14:46	05-09-2019 09:16
S-2 North (3')	9E09003-18	Soil	05/08/19 14:47	05-09-2019 09:16

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-8 (13')
9E09003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00294	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.5 %		75-125	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.8 %		75-125	P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	521	1.47	mg/kg dry	1	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	32.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %		70-130	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		113 %		70-130	P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.8	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 North (6.5')
9E09003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00294	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	0.00191	0.00147	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.9 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	606	1.47	mg/kg dry	1	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	32.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	36.8	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.8	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 South (6.5')

9E09003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00274	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.1 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	590	6.85	mg/kg dry	5	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	27.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	34.2	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13 (11')
9E09003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.0 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	972	5.81	mg/kg dry	5	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 (11')
9E09003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.4 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1020	5.75	mg/kg dry	5	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 North (5.5')
9E09003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.8 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	630	5.10	mg/kg dry	5	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 South (5.5')
9E09003-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0143	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.0143	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.0143	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.0286	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.0143	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.0 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3450	14.3	mg/kg dry	1	P9E0908	05/09/19	05/09/19	EPA 300.0	
% Moisture	30.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	357	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	357	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	357	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	357	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 East (5.5')
9E09003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00128	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.4 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	41.1	1.28	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	22.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 (14')
9E09003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.3 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	274	1.16	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 North (7')
9E09003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Toluene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Ethylbenzene	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (p/m)	ND	0.00274	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Xylene (o)	ND	0.00137	mg/kg dry	1	P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.0 %	75-125		P9E0906	05/09/19	05/09/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1800	6.85	mg/kg dry	5	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	27.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	34.2	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	34.2	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 (12')
9E09003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.4 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1420	5.81	mg/kg dry	5	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	75.4	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	833	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	123	29.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1030	29.1	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 South (6')
9E09003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1100	5.62	mg/kg dry	5	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	11.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 North (6')
9E09003-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1080	5.21	mg/kg dry	5	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 West (6')
9E09003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.6 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1240	11.4	mg/kg dry	10	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-2 (6.5')
9E09003-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.2 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	432	1.06	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 South (3')
9E09003-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.23	1.01	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 West (3')
9E09003-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.4 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.76	1.10	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P9E0902	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 North (3')
9E09003-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.3 %	75-125		P9E0906	05/09/19	05/10/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	166	1.03	mg/kg dry	1	P9E0908	05/09/19	05/10/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9E1002	05/10/19	05/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9E0907	05/09/19	05/09/19	TPH 8015M	
>C12-C28	72.3	25.8	mg/kg dry	1	P9E0907	05/09/19	05/09/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9E0907	05/09/19	05/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %	70-130		P9E0907	05/09/19	05/09/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9E0907	05/09/19	05/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	72.3	25.8	mg/kg dry	1	[CALC]	05/09/19	05/09/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0906 - General Preparation (GC)

Blank (P9E0906-BLK1)

Prepared & Analyzed: 05/09/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0483		"	0.0600		80.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0523		"	0.0600		87.2	75-125			

LCS (P9E0906-BS1)

Prepared & Analyzed: 05/09/19

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.120	0.00100	"	0.100		120	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.203	0.00200	"	0.200		102	70-130			
Xylene (o)	0.118	0.00100	"	0.100		118	70-130			
Surrogate: 1,4-Difluorobenzene	0.0732		"	0.0600		122	75-125			
Surrogate: 4-Bromofluorobenzene	0.0613		"	0.0600		102	75-125			

LCS Dup (P9E0906-BS1)

Prepared & Analyzed: 05/09/19

Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130	2.98	20	
Toluene	0.113	0.00100	"	0.100		113	70-130	6.14	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130	6.05	20	
Xylene (p/m)	0.187	0.00200	"	0.200		93.5	70-130	8.35	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	5.20	20	
Surrogate: 4-Bromofluorobenzene	0.0595		"	0.0600		99.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0681		"	0.0600		113	75-125			

Calibration Blank (P9E0906-CCB1)

Prepared & Analyzed: 05/09/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0484		"	0.0600		80.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0572		"	0.0600		95.3	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0906 - General Preparation (GC)

Calibration Blank (P9E0906-CCB2)

Prepared: 05/09/19 Analyzed: 05/10/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0481		"	0.0600		80.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0649		"	0.0600		108	75-125			

Calibration Blank (P9E0906-CCB3)

Prepared: 05/09/19 Analyzed: 05/10/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0470		"	0.0600		78.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.0533		"	0.0600		88.9	75-125			

Calibration Check (P9E0906-CCV1)

Prepared & Analyzed: 05/09/19

Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.5	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.0642		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0611		"	0.0600		102	75-125			

Calibration Check (P9E0906-CCV2)

Prepared: 05/09/19 Analyzed: 05/10/19

Benzene	0.116	0.00100	mg/kg wet	0.100		116	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.8	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.0618		"	0.0600		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.0626		"	0.0600		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0906 - General Preparation (GC)

Calibration Check (P9E0906-CCV3)		Prepared: 05/09/19 Analyzed: 05/10/19								
Benzene	0.118	0.00100	mg/kg wet	0.100		118	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.7	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.0790		"	0.0600		132	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0653		"	0.0600		109	75-125			

Matrix Spike (P9E0906-MS1)		Source: 9E09003-18		Prepared: 05/09/19 Analyzed: 05/10/19						
Benzene	0.0866	0.00103	mg/kg dry	0.103	ND	84.0	80-120			
Toluene	0.0905	0.00103	"	0.103	ND	87.8	80-120			
Ethylbenzene	0.102	0.00103	"	0.103	ND	98.6	80-120			
Xylene (p/m)	0.150	0.00206	"	0.206	ND	72.9	80-120			QM-07
Xylene (o)	0.0807	0.00103	"	0.103	ND	78.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0714		"	0.0619		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.0718		"	0.0619		116	75-125			

Matrix Spike Dup (P9E0906-MSD1)		Source: 9E09003-18		Prepared: 05/09/19 Analyzed: 05/10/19						
Benzene	0.0807	0.00103	mg/kg dry	0.103	ND	78.3	80-120	7.05	20	QM-07
Toluene	0.0811	0.00103	"	0.103	ND	78.6	80-120	11.0	20	QM-07
Ethylbenzene	0.0882	0.00103	"	0.103	ND	85.5	80-120	14.3	20	
Xylene (p/m)	0.127	0.00206	"	0.206	ND	61.7	80-120	16.6	20	QM-07
Xylene (o)	0.0647	0.00103	"	0.103	ND	62.8	80-120	22.0	20	QM-07, S-GC
Surrogate: 1,4-Difluorobenzene	0.0820		"	0.0619		133	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0705		"	0.0619		114	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0908 - * DEFAULT PREP *****

Blank (P9E0908-BLK1)

Prepared & Analyzed: 05/09/19

Chloride	ND	1.00	mg/kg wet
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LCS (P9E0908-BS1)

Prepared & Analyzed: 05/09/19

Chloride	416	1.00	mg/kg wet	400	104	80-120
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LCS Dup (P9E0908-BSD1)

Prepared & Analyzed: 05/09/19

Chloride	408	1.00	mg/kg wet	400	102	80-120	1.98	20
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Calibration Blank (P9E0908-CCB1)

Prepared & Analyzed: 05/09/19

Chloride	0.00		mg/kg wet
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Calibration Blank (P9E0908-CCB2)

Prepared: 05/09/19 Analyzed: 05/10/19

Chloride	0.00		mg/kg wet
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Calibration Check (P9E0908-CCV1)

Prepared & Analyzed: 05/09/19

Chloride	19.9	0.100	mg/kg wet		0-200
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Calibration Check (P9E0908-CCV2)

Prepared: 05/09/19 Analyzed: 05/10/19

Chloride	21.1	0.100	mg/kg wet		0-200
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Calibration Check (P9E0908-CCV3)

Prepared: 05/09/19 Analyzed: 05/10/19

Chloride	21.2	0.100	mg/kg wet		0-200
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Matrix Spike (P9E0908-MS1)

Source: 9E09003-01

Prepared & Analyzed: 05/09/19

Chloride	1400	1.47	mg/kg dry	735	521	120	80-120
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Matrix Spike (P9E0908-MS2)

Source: 9E09003-11

Prepared: 05/09/19 Analyzed: 05/10/19

Chloride	2140	5.81	mg/kg dry	581	1420	123	80-120
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0908 - * DEFAULT PREP *****

Matrix Spike Dup (P9E0908-MSD1)	Source: 9E09003-01		Prepared & Analyzed: 05/09/19							
Chloride	1540	1.47	mg/kg dry	735	521	139	80-120	9.42	20	

Matrix Spike Dup (P9E0908-MSD2)	Source: 9E09003-11		Prepared: 05/09/19 Analyzed: 05/10/19							
Chloride	2110	5.81	mg/kg dry	581	1420	119	80-120	1.17	20	

Batch P9E1002 - * DEFAULT PREP *****

Blank (P9E1002-BLK2)	Prepared & Analyzed: 05/10/19									
% Moisture	ND	0.1	%							

Duplicate (P9E1002-DUP1)	Source: 9E09004-08		Prepared & Analyzed: 05/10/19							
% Moisture	4.0	0.1	%		4.0			0.00	20	

Duplicate (P9E1002-DUP2)	Source: 9E09004-35		Prepared & Analyzed: 05/10/19							
% Moisture	14.0	0.1	%		15.0			6.90	20	

Duplicate (P9E1002-DUP3)	Source: 9E09016-01		Prepared & Analyzed: 05/10/19							
% Moisture	17.0	0.1	%		9.0			61.5	20	

Duplicate (P9E1002-DUP4)	Source: 9E09024-09		Prepared & Analyzed: 05/10/19							
% Moisture	12.0	0.1	%		13.0			8.00	20	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0902 - TX 1005

Blank (P9E0902-BLK1)

Prepared & Analyzed: 05/09/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	60.3		"	50.0		121	70-130			

LCS (P9E0902-BS1)

Prepared & Analyzed: 05/09/19

C6-C12	834	25.0	mg/kg wet	1000		83.4	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	57.0		"	50.0		114	70-130			

LCS Dup (P9E0902-BSD1)

Prepared & Analyzed: 05/09/19

C6-C12	837	25.0	mg/kg wet	1000		83.7	75-125	0.290	20	
>C12-C28	1080	25.0	"	1000		108	75-125	2.35	20	
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Calibration Blank (P9E0902-CCB1)

Prepared & Analyzed: 05/09/19

C6-C12	23.7		mg/kg wet							
>C12-C28	3.35		"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Calibration Blank (P9E0902-CCB2)

Prepared & Analyzed: 05/09/19

C6-C12	9.11		mg/kg wet							
>C12-C28	7.75		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0902 - TX 1005

Calibration Check (P9E0902-CCV1)

Prepared & Analyzed: 05/09/19

C6-C12	469	25.0	mg/kg wet	500		93.8	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	96.6		"	100		96.6	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.8	70-130			

Calibration Check (P9E0902-CCV2)

Prepared & Analyzed: 05/09/19

C6-C12	508	25.0	mg/kg wet	500		102	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	98.3		"	100		98.3	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			

Calibration Check (P9E0902-CCV3)

Prepared & Analyzed: 05/09/19

C6-C12	573	25.0	mg/kg wet	500		115	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

Duplicate (P9E0902-DUP1)

Source: 9E09003-17

Prepared & Analyzed: 05/09/19

C6-C12	20.8	27.5	mg/kg dry		ND				20	
>C12-C28	ND	27.5	"		16.1				20	
Surrogate: 1-Chlorooctane	109		"	110		99.3	70-130			
Surrogate: o-Terphenyl	61.5		"	54.9		112	70-130			

Batch P9E0907 - TX 1005

Blank (P9E0907-BLK1)

Prepared & Analyzed: 05/09/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E0907 - TX 1005

LCS (P9E0907-BS1)		Prepared & Analyzed: 05/09/19								
C6-C12	1070	25.0	mg/kg wet	1000		107	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			
LCS Dup (P9E0907-BSD1)		Prepared & Analyzed: 05/09/19								
C6-C12	1070	25.0	mg/kg wet	1000		107	75-125	0.301	20	
>C12-C28	1110	25.0	"	1000		111	75-125	0.203	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/10/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.

Project: XTO EMSU Sat 13

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 17-0193-01

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientield, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:
MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES
BTEX-MIBK ☐
TPH-MIBK ☐
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒
8082 PCBs ☒
TCLP - METALS (RCRA) ☒
TCLP - PEST ☒
TOTAL METALS (RCRA) ☒
LEAD - TOTAL ☒
RCI ☒
TDS ☒
pH ☒
EXPLOSIVES ☒
CHLORIDES ☒
ANIONS ☒
ALKALINITY ☒
M300

FIELD NOTES

DATE: 5/9/19

PO#:

LAB WORK ORDER#

PAGE 4 OF 4
9509003

PROJECT LOCATION OR NAME: XTO SMSU CAT 13

LAI PROJECT #: 17-0193-04 COLLECTOR: TO

CHAIN-OF-CUSTODY

Nº 0110

Page 31 of 32

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
S-8 (13')	1	5/8/19	7:46	S	1							
S-8 North (65')	2		7:53									
S-8 South (65')	3		7:57									
S-13 (14')	4		11:04									
S-14 (11')	5		11:05									
S-14 North (55')	6		11:07									
S-14 South (55')	7		11:09									
S-14 East (55')	8		11:12									
S-12 (14')	9		12:59									
S-12 North (7')	10		13:19									
S-7 (12')	11		14:07									
S-7 South (6')	18		14:12									
S-7 North (6')	19		14:14									
S-7 West (6')	14		14:24									
S-2 (65')	15		14:32									
TOTAL					15							

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

TURN AROUND TIME

NORMAL ☐1 DAY ☒2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: -75-65

THERM#:

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

HAND DELIVERED

Varson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?
☐ Yes
☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:

MSI

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ TPH ☒ TPH 1005 ☐ TPH 1006 ☐
 DIESEL MOD 8015 ☒
 OIL MOD 8015 ☒
 VOC 8260 ☒
 SVOC 8270 ☒
 8081 PESTICIDES ☒
 8082 PESTICIDES ☒
 TBLP - METALS (ROR) ☒
 TCLP - METALS (ROR) ☒
 TOTAL METALS (ROR) ☒
 LEAD - TOTAL ☒
 RCI ☒
 TOX ☒
 TDS ☒
 pH ☒
 % MOISTURE ☒
 CYANIDE ☒
 FECHLORATE ☒
 ALKALINITY ☒
 CHLORIDE ANIONS ☒
 FIELD NOTES

DATE:

5/9/19

PO#:

LAB WORK ORDER#: AE090003

PROJECT LOCATION OR NAME:

XPD E MSU Sd 13

AI PROJECT #:

17-0193-01 COLLECTOR: TD

PAGE 2 OF 2

CHAIN-OF-CUSTODY

Nº 0111

Page 32 of 32

TOTAL

3

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP:

THERM#:

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

1 DAY ☒CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

2 DAY ☐

CARRIER BILL #

LABORATORY:

PPEL

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO EMSU Sat 13

Project Number: 17-0193-01

Location: None Given

Lab Order Number: 9E14007



NELAP/TCEQ # T104704516-18-9

Report Date: 05/15/19

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-10 (16')	9E14007-01	Soil	05/09/19 10:19	05-14-2019 09:00
S-10 South (8')	9E14007-02	Soil	05/09/19 10:24	05-14-2019 09:00
S-10 West (8')	9E14007-03	Soil	05/09/19 10:27	05-14-2019 09:00
S-10 North (8')	9E14007-04	Soil	05/09/19 10:33	05-14-2019 09:00
S-11 (18')	9E14007-05	Soil	05/09/19 14:55	05-14-2019 09:00

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-10 (16')
9E14007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.7 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	926	5.49	mg/kg dry	5	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 South (8')
9E14007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	960	5.56	mg/kg dry	5	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 West (8')
9E14007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.8 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1290	5.68	mg/kg dry	5	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 North (8')
9E14007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.7 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.5 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1640	5.56	mg/kg dry	5	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 (18')
9E14007-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	449	1.11	mg/kg dry	1	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P9E1402	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Blank (P9E1404-BLK1)

Prepared & Analyzed: 05/14/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0521		"	0.0600		86.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0577		"	0.0600		96.2	75-125			

LCS (P9E1404-BS1)

Prepared & Analyzed: 05/14/19

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.118	0.00100	"	0.100		118	70-130			
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.0652		"	0.0600		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.0659		"	0.0600		110	75-125			

LCS Dup (P9E1404-BSD1)

Prepared & Analyzed: 05/14/19

Benzene	0.116	0.00100	mg/kg wet	0.100		116	70-130	1.86	20	
Toluene	0.115	0.00100	"	0.100		115	70-130	1.86	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130	8.22	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	70-130	2.71	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	0.354	20	
Surrogate: 1,4-Difluorobenzene	0.0725		"	0.0600		121	75-125			
Surrogate: 4-Bromofluorobenzene	0.0628		"	0.0600		105	75-125			

Calibration Blank (P9E1404-CCB1)

Prepared & Analyzed: 05/14/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0589		"	0.0600		98.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0518		"	0.0600		86.3	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Calibration Blank (P9E1404-CCB2)

Prepared & Analyzed: 05/14/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0487		"	0.0600		81.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0535		"	0.0600		89.2	75-125			

Calibration Check (P9E1404-CCV1)

Prepared & Analyzed: 05/14/19

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.7	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.0588		"	0.0600		98.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.0633		"	0.0600		105	75-125			

Calibration Check (P9E1404-CCV2)

Prepared & Analyzed: 05/14/19

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.8	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.0604		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0590		"	0.0600		98.4	75-125			

Calibration Check (P9E1404-CCV3)

Prepared: 05/14/19 Analyzed: 05/15/19

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.0600		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.0770		"	0.0600		128	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Matrix Spike (P9E1404-MS1)	Source: 9E10010-06			Prepared: 05/14/19		Analyzed: 05/15/19				
Benzene	0.0660	0.00115	mg/kg dry	0.115	ND	57.4	80-120			
Toluene	0.0563	0.00115	"	0.115	ND	49.0	80-120			
Ethylbenzene	0.0741	0.00115	"	0.115	ND	64.4	80-120			
Xylene (p/m)	0.132	0.00230	"	0.230	ND	57.4	80-120			
Xylene (o)	0.0702	0.00115	"	0.115	ND	61.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0633		"	0.0690		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0683		"	0.0690		99.1	75-125			

Matrix Spike Dup (P9E1404-MSD1)	Source: 9E10010-06			Prepared: 05/14/19		Analyzed: 05/15/19				
Benzene	0.0685	0.00115	mg/kg dry	0.115	ND	59.6	80-120	3.66	20	
Toluene	0.0598	0.00115	"	0.115	ND	52.1	80-120	6.04	20	
Ethylbenzene	0.0765	0.00115	"	0.115	ND	66.6	80-120	3.24	20	
Xylene (p/m)	0.120	0.00230	"	0.230	ND	52.0	80-120	9.73	20	
Xylene (o)	0.0682	0.00115	"	0.115	ND	59.3	80-120	2.86	20	
Surrogate: 1,4-Difluorobenzene	0.0785		"	0.0690		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.0743		"	0.0690		108	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9E1405 - General Preparation (GC)										
Blank (P9E1405-BLK1)				Prepared & Analyzed: 05/14/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9E1405-BS1)				Prepared & Analyzed: 05/14/19						
Chloride	412	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P9E1405-BSD1)				Prepared & Analyzed: 05/14/19						
Chloride	419	1.00	mg/kg wet	400		105	80-120	1.60	20	
Calibration Blank (P9E1405-CCB1)				Prepared & Analyzed: 05/14/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9E1405-CCB2)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	0.0260		mg/kg wet							
Calibration Check (P9E1405-CCV1)				Prepared & Analyzed: 05/14/19						
Chloride	20.5		mg/kg	20.0		102	0-200			
Calibration Check (P9E1405-CCV2)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P9E1405-CCV3)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	20.7		mg/kg	20.0		103	0-200			
Matrix Spike (P9E1405-MS1)				Source: 9E14007-01 Prepared & Analyzed: 05/14/19						
Chloride	3790	5.49	mg/kg dry	2750	926	104	80-120			
Matrix Spike (P9E1405-MS2)				Source: 9E14008-06 Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	12300	11.4	mg/kg dry	11400	987	99.3	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO EMSU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9E1405 - General Preparation (GC)										
Matrix Spike Dup (P9E1405-MSD1)		Source: 9E14007-01			Prepared & Analyzed: 05/14/19					
Chloride	3780	5.49	mg/kg dry	2750	926	104	80-120	0.420	20	
Matrix Spike Dup (P9E1405-MSD2)		Source: 9E14008-06			Prepared: 05/14/19 Analyzed: 05/15/19					
Chloride	12500	11.4	mg/kg dry	11400	987	101	80-120	1.68	20	
Batch P9E1503 - *** DEFAULT PREP ***										
Blank (P9E1503-BLK1)		Prepared & Analyzed: 05/15/19								
% Moisture	ND	0.1	%							
Duplicate (P9E1503-DUP1)		Source: 9E14010-13			Prepared & Analyzed: 05/15/19					
% Moisture	8.0	0.1	%		8.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1402 - TX 1005

Blank (P9E1402-BLK1)

Prepared & Analyzed: 05/14/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	61.1		"	50.0		122	70-130			

LCS (P9E1402-BS1)

Prepared & Analyzed: 05/14/19

C6-C12	2030	25.0	mg/kg wet	2000		101	75-125			
>C12-C28	2150	25.0	"	2000		108	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			

LCS Dup (P9E1402-BSD1)

Prepared & Analyzed: 05/14/19

C6-C12	2060	25.0	mg/kg wet	2000		103	75-125	1.31	20	
>C12-C28	2210	25.0	"	2000		110	75-125	2.47	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

Calibration Blank (P9E1402-CCB1)

Prepared & Analyzed: 05/14/19

C6-C12	13.5		mg/kg wet							
>C12-C28	9.32		"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	60.1		"	50.0		120	70-130			

Calibration Blank (P9E1402-CCB2)

Prepared & Analyzed: 05/14/19

C6-C12	14.1		mg/kg wet							
>C12-C28	18.0		"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	62.2		"	50.0		124	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1402 - TX 1005

Calibration Check (P9E1402-CCV1)

Prepared & Analyzed: 05/14/19

C6-C12	1050	25.0	mg/kg wet	1000		105	85-115			
>C12-C28	1170	25.0	"	1000		117	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	54.1		"	50.0		108	70-130			

Calibration Check (P9E1402-CCV2)

Prepared & Analyzed: 05/14/19

C6-C12	1070	25.0	mg/kg wet	1000		107	85-115			
>C12-C28	1130	25.0	"	1000		113	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

Calibration Check (P9E1402-CCV3)

Prepared & Analyzed: 05/14/19

C6-C12	1100	25.0	mg/kg wet	1000		110	85-115			
>C12-C28	1100	25.0	"	1000		110	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	57.4		"	50.0		115	70-130			

Duplicate (P9E1402-DUP1)

Source: 9E14007-05

Prepared & Analyzed: 05/14/19

C6-C12	13.7	27.8	mg/kg dry		14.8			7.79	20	
>C12-C28	ND	27.8	"		12.0				20	
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	68.3		"	55.6		123	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO EMSU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 5/15/2019

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Revised Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO ESMU Sat 13

Project Number: 17-0193-01

Location:

Lab Order Number: 9E14008



NELAP/TCEQ # T104704516-18-9

Report Date: 05/15/19

Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-7 (17')	9E14008-01	Soil	05/13/19 10:14	05-14-2019 09:00
S-7 South	9E14008-02	Soil	05/13/19 10:20	05-14-2019 09:00
S-7 North	9E14008-03	Soil	05/13/19 10:30	05-14-2019 09:00

05/15/2019 PBELAB Staff was advised that samples S-7,1 North, S-7.1 South, and S-7.1 (14') were not needed. This report reflects the removal of those three samples.

Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-7 (17')
9E14008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	32.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	36.8	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	36.8	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	36.8	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.8	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 South
9E14008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.6 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.1 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1250	11.5	mg/kg dry	10	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 North
9E14008-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %	75-125		P9E1404	05/14/19	05/14/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	765	5.49	mg/kg dry	5	P9E1405	05/14/19	05/14/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9E1503	05/15/19	05/15/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P9E1401	05/14/19	05/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/14/19	05/14/19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Blank (P9E1404-BLK1)

Prepared & Analyzed: 05/14/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0521		"	0.0600		86.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0577		"	0.0600		96.2	75-125			

LCS (P9E1404-BS1)

Prepared & Analyzed: 05/14/19

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.118	0.00100	"	0.100		118	70-130			
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 1,4-Difluorobenzene	0.0659		"	0.0600		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0652		"	0.0600		109	75-125			

LCS Dup (P9E1404-BSD1)

Prepared & Analyzed: 05/14/19

Benzene	0.116	0.00100	mg/kg wet	0.100		116	70-130	1.86	20	
Toluene	0.115	0.00100	"	0.100		115	70-130	1.86	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130	8.22	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	70-130	2.71	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	0.354	20	
Surrogate: 4-Bromofluorobenzene	0.0628		"	0.0600		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.0725		"	0.0600		121	75-125			

Calibration Blank (P9E1404-CCB1)

Prepared & Analyzed: 05/14/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0518		"	0.0600		86.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0589		"	0.0600		98.2	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Calibration Blank (P9E1404-CCB2)				Prepared & Analyzed: 05/14/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0487		"	0.0600		81.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0535		"	0.0600		89.2	75-125			

Calibration Check (P9E1404-CCV1)				Prepared & Analyzed: 05/14/19						
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.7	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.0633		"	0.0600		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.0588		"	0.0600		98.0	75-125			

Calibration Check (P9E1404-CCV2)				Prepared & Analyzed: 05/14/19						
Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.8	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.0590		"	0.0600		98.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.0604		"	0.0600		101	75-125			

Calibration Check (P9E1404-CCV3)				Prepared: 05/14/19 Analyzed: 05/15/19						
Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.0770		"	0.0600		128	75-125			
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.0600		106	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9E1404 - General Preparation (GC)

Matrix Spike (P9E1404-MS1)	Source: 9E10010-06			Prepared: 05/14/19		Analyzed: 05/15/19				
Benzene	0.0660	0.00115	mg/kg dry	0.115	ND	57.4	80-120			
Toluene	0.0563	0.00115	"	0.115	ND	49.0	80-120			
Ethylbenzene	0.0741	0.00115	"	0.115	ND	64.4	80-120			
Xylene (p/m)	0.132	0.00230	"	0.230	ND	57.4	80-120			
Xylene (o)	0.0702	0.00115	"	0.115	ND	61.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0633		"	0.0690		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0683		"	0.0690		99.1	75-125			

Matrix Spike Dup (P9E1404-MSD1)	Source: 9E10010-06			Prepared: 05/14/19		Analyzed: 05/15/19				
Benzene	0.0685	0.00115	mg/kg dry	0.115	ND	59.6	80-120	3.66	20	
Toluene	0.0598	0.00115	"	0.115	ND	52.1	80-120	6.04	20	
Ethylbenzene	0.0765	0.00115	"	0.115	ND	66.6	80-120	3.24	20	
Xylene (p/m)	0.120	0.00230	"	0.230	ND	52.0	80-120	9.73	20	
Xylene (o)	0.0682	0.00115	"	0.115	ND	59.3	80-120	2.86	20	
Surrogate: 1,4-Difluorobenzene	0.0785		"	0.0690		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.0743		"	0.0690		108	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9E1405 - General Preparation (GC)										
Blank (P9E1405-BLK1)				Prepared & Analyzed: 05/14/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9E1405-BS1)				Prepared & Analyzed: 05/14/19						
Chloride	412	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P9E1405-BSD1)				Prepared & Analyzed: 05/14/19						
Chloride	419	1.00	mg/kg wet	400		105	80-120	1.60	20	
Calibration Blank (P9E1405-CCB1)				Prepared & Analyzed: 05/14/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9E1405-CCB2)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	0.0260		mg/kg wet							
Calibration Check (P9E1405-CCV1)				Prepared & Analyzed: 05/14/19						
Chloride	20.5		mg/kg	20.0		102	0-200			
Calibration Check (P9E1405-CCV2)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P9E1405-CCV3)				Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	20.7		mg/kg	20.0		103	0-200			
Matrix Spike (P9E1405-MS1)				Source: 9E14007-01 Prepared & Analyzed: 05/14/19						
Chloride	3790	5.49	mg/kg dry	2750	926	104	80-120			
Matrix Spike (P9E1405-MS2)				Source: 9E14008-06 Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	12300	11.4	mg/kg dry	11400	987	99.3	80-120			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: XTO ESMU Sat 13	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0193-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9E1405 - General Preparation (GC)										
Matrix Spike Dup (P9E1405-MSD1)		Source: 9E14007-01		Prepared & Analyzed: 05/14/19						
Chloride	3780	5.49	mg/kg dry	2750	926	104	80-120	0.420	20	
Matrix Spike Dup (P9E1405-MSD2)		Source: 9E14008-06		Prepared: 05/14/19 Analyzed: 05/15/19						
Chloride	12500	11.4	mg/kg dry	11400	987	101	80-120	1.68	20	
Batch P9E1503 - *** DEFAULT PREP ***										
Blank (P9E1503-BLK1)		Prepared & Analyzed: 05/15/19								
% Moisture	ND	0.1	%							
Duplicate (P9E1503-DUP1)		Source: 9E14010-13		Prepared & Analyzed: 05/15/19						
% Moisture	8.0	0.1	%		8.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1401 - TX 1005

Blank (P9E1401-BLK1)

Prepared & Analyzed: 05/14/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	68.4		"	50.0		137	70-130			S-GC

LCS (P9E1401-BS1)

Prepared & Analyzed: 05/14/19

C6-C12	2130	25.0	mg/kg wet	2000		106	75-125			
>C12-C28	2180	25.0	"	2000		109	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

LCS Dup (P9E1401-BSD1)

Prepared & Analyzed: 05/14/19

C6-C12	2130	25.0	mg/kg wet	2000		107	75-125	0.135	20	
>C12-C28	2190	25.0	"	2000		109	75-125	0.317	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			

Calibration Blank (P9E1401-CCB1)

Prepared & Analyzed: 05/14/19

C6-C12	9.53		mg/kg wet							
>C12-C28	19.8		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	64.3		"	50.0		129	70-130			

Calibration Blank (P9E1401-CCB2)

Prepared: 05/14/19 Analyzed: 05/15/19

C6-C12	8.68		mg/kg wet							
>C12-C28	23.6		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	62.6		"	50.0		125	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1401 - TX 1005

Calibration Check (P9E1401-CCV1)

Prepared & Analyzed: 05/14/19

C6-C12	1100	25.0	mg/kg wet	1000		110	85-115			
>C12-C28	1100	25.0	"	1000		110	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	57.4		"	50.0		115	70-130			

Calibration Check (P9E1401-CCV2)

Prepared: 05/14/19 Analyzed: 05/15/19

C6-C12	1070	25.0	mg/kg wet	1000		107	85-115			
>C12-C28	1120	25.0	"	1000		112	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

Calibration Check (P9E1401-CCV3)

Prepared: 05/14/19 Analyzed: 05/15/19

C6-C12	1070	25.0	mg/kg wet	1000		107	85-115			
>C12-C28	1140	25.0	"	1000		114	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

Duplicate (P9E1401-DUP1)

Source: 9E13006-03

Prepared: 05/14/19 Analyzed: 05/15/19

C6-C12	ND	125	mg/kg wet		ND				20	
>C12-C28	887	125	"		202			126	20	
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO ESMU Sat 13
Project Number: 17-0193-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 5/15/2019

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

507 N. Mariefeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 3/14/13 PAGE: 1
PO#: _____ LAB WORK ORDER#: 951400
PROJECT LOCATION OR NAME: _____
LAI PROJECT #: 17-0193-01 COLLECTOR: TD

Page 14 of 14

Released to Imaging: 10/16/2024 9:37:59 AM

Appendix D

Boring Logs and Well Completion Records

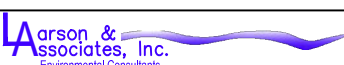
BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 9:05 MST Finish: 9:33 MST DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	Surface Elevation: TOC Elevation:			REMARKS	
					NUMBER	RECOVERY	DEPTH		
	0	Silty Sand, 10 YR, 7/3, Very Pale Brown, Well Sorted			Locking Steel Cover	Vented Cap	Riser	Bentonite	SOIL : _____ PPM SOIL : _____ PPM
	5								
	10	7.5 YR, 8/3, Pink							
	15		SM						
	20	10 YR, 7/3, Very Pale Brown							
	25	10 YR, 6/4, Light Yellowish Brown, Subrounded Clast Inclusions, 3 -20mm in Diameter			24.46				
	30				27.46			Graded Silica Sand	
	35								
	36	Clayey Silt, Poorly Sorted, Sub-Angular, Clast Inclusions, 2-5mm in Diameter, 10 YR, 7/3, Very Pale Brown						2" Sch. 40 PVC Threaded 0.0.0" Slotted Screw	
	40		SC		39.51				Depth of Water at Time of Drilling
	45	Saturated Soil @ 45'			47.14			Cap	
		TD: 45'			47.64				

1-2-2019
36.54


ONE CONTINUOUS AUGER SAMPLER
 STANDARD PENETRATION TEST
 UNDISTURBED SAMPLE
 WATER TABLE (24 HRS)

WATER TABLE (TIME OF BORING)
 LABORATORY TEST LOCATION
 PENETROMETER (TONS/ SQ. FT)
 NO RECOVERY



DRILL DATE :
12-28-2018

BORING NUMBER :
TMW-1

JOB NUMBER : 17-0193-01/ XTO Energy
HOLE DIAMETER : 2"
LOCATION : EMSU SAT 13, Lea County
LAI GEOLOGIST : RO
DRILLING CONTRACTOR : Scarbrough Drilling
DRILLING METHOD : Air Auger

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:24 MST Finish: 10:40 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	Surface Elevation: 3,558' TOC Elevation:			REMARKS	
					NUMBER	RECOVERY	DEPTH	BACKGROUND PID READING SOIL : _____ PPM SOIL : _____ PPM	
	0	Silty Sand with Subrounded Inclusions, 10 YR, 7/3, Very Pale Brown, 2-15mm Diameter				1	1	10:24	
	5								
	10								
	15	Silty Sand, Well Sorted	SM						
	20	10 YR, 8/2, Very Pale Brown							
	25	10 YR, 7/3, Very Pale Brown, Sub-Angular, Clast Inclusions, 2-15mm Diameter							
	30								
	34								
	35	Clayey Silt, Poorly Sorted, Sub-Angular, Clast Inclusions, 2-5mm Diameter, 10 YR, 7/3, Moist, Very Pale Brown	SC						
	40								
	45	TD: 45'							

1-2-2019 37.02'

ONE CONTINUOUS AUGER SAMPLER STANDARD PENETRATION TEST UNDISTURBED SAMPLE WATER TABLE (24 HRS) WATER TABLE (TIME OF BORING) L LABORATORY TEST LOCATION + PENETROMETER (TONS/ SQ. FT) NR NO RECOVERY	JOB NUMBER : 17-0193-01/ XTO Energy HOLE DIAMETER : 2" LOCATION : EMSU SAT 13, Lea County LAI GEOLOGIST : RO DRILLING CONTRACTOR : Scarbrough Drilling DRILLING METHOD : Air Auger
---	--

DRILL DATE : 12-28-2018	BORING NUMBER : TMW-2	
----------------------------	--------------------------	--

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 12:04 Finish: 12:14 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS		
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING	
					2	4	6	8	10	12	14	16	18							
	0	Sand, 7.5YR, 6/4, Light Brown, Fine Grained Quartz Sand, Sub-Rounded	SW																0	12:04
	5	Caliche, 7.5YR, 8/2, Pinkish-White, Medium Grained Quartz Sand, Sub-Angular																	5	12:06
	10		Caliche																10	12:07
	15		Caliche																15	12:08
	20		Caliche																20	12:10
	25		Caliche																25	12:12
	30	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																30	12:13
	34	Wet at 35'																		12:14
	35	TD: 35'																	35	

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy / 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>04-24-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>HA-1</u>		

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 8:53 Finish: 9:33 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS					
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING				
					2	4	6	8	10	12	14	16	18										
	0	Sand, 7.5YR, 4/6, Strong Brown, Fine Grained Quartz Sand, Well Rounded	SW																0	8:53	SOIL : _____ PPM SOIL : _____ PPM		
	5	Caliche, 7.5YR, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded, 8/2, Pinkish White	Caliche																5	8:54			
	10																				10	8:56	
	15																				15	8:58	
	20																				20	9:00	
	25																				25	9:08	
	30																		30	9:15			
	35	Sand, 7.5YR, 6/4, Light Brown, Damp, Sub-Rounded, Fine Grain Quartz Sand	SW																35	9:29			
	40	TD: 40'																	40	9:33			

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy / 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13 Trunkline</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>3-29-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-2</u>		

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 9:48 Finish: 10:20 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE		REMARKS			
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING	
					2	4	6	8	10	12	14	16	18							
	0	Sand, Brown, 7.5YR, 4/4, Well Rounded, Fine Grained Quartz Sand	SW																0	9:49
3																		5	9:52	
5																		10	9:54	
10																		15	9:58	
	15	Caliche, 7.5YR 8/3, Pink, Sub-Rounded, Fine Grained Quartz Sand	Caliche																20	10:03
20																		25	10:07	
25																		30	10:12	
30																		35	10:15	
	35	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																40	10:20
40																				
		Wet at 35'																		
		TD: 40'																		

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy / 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>3-29-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-5</u>		

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 13:20 Finish: 13:40 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS			
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING		
					2	4	6	8	10	12	14	16	18								
	0	Sand, 7.5YR, 5/6, Strong Brown, Fine Grain Quartz Sand, Well Rounded	SW																0	13:20	SOIL : _____ PPM SOIL : _____ PPM
	5	Caliche, 7.5YR, 8/2, Pinkish White, Well Cemented, Fine Grained Quartz Sand, Sub- Angular	Caliche																5	13:22	
	10																		10	13:27	
	15																		15	13:30	
	20	Sand, 7.5YR, 8/2, Loamy Sand, Well Sorted, Fine Grained Quartz Sand	SW																20	13:33	
	25																		25	13:37	
	30																		30	13:38	
	35	TD: 35'																	35	13:40	

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy / 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13 Trunkline</u>
WATER TABLE (24 HRS)	NR NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>

	DRILL DATE : <u>04-04-2018</u>	BORING NUMBER : <u>DP-6</u>	DRILLING CONTRACTOR : <u>SDC</u>
			DRILLING METHOD : <u>Air Rotary</u>

BORING RECORD																						
GEOLOGIC UNIT	DEPTH	Start: 9:18 Finish: 9:33 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE		REMARKS					
					PPM X <u>1</u>										NUMBER	PID READING		RECOVERY	DEPTH			
					2	4	6	8	10	12	14	16	18									
	0	Sand, 7.5YR, 6/6, Reddish Yellow, Well Rounded, Fine Grained Quartz Sand	SW																0	9:18	SOIL : _____ PPM SOIL : _____ PPM	
	5	Caliche, 7.5YR, 8/3, Pink, Well Cemented, Quartz Sand, Sub-Angular, Saturated	Caliche																5	9:20		
	10																			10	9:23	
	15																			15	9:24	
	20																			20	9:25	
	25																			25	9:29	
	30	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																30	9:31		
	35	Wet at 35'																	35	9:33		

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : _____
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NR NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>04-24-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-7</u>		

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 11:08 Finish: 11:17 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS		
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING	
					2	4	6	8	10	12	14	16	18							
	0	Sand, 7.5YR, 4/4, Brown, Fine Grained Quartz Sand, Sub- Rounded	SW																0	11:08
	5	Caliche, 7.5YR, 8/3, Pink, Sub- Angular, Quartz Sand																	5	11:09
	10		Caliche																10	11:10
	15	7.5YR, 4/4, Brown																	15	11:11
	19	Sand, Fine Grained Sand, Sub- Rounded, Quartz Sand	SW																19	
	20	Caliche, 7.5YR, 5/3, Pink, Quartz Sand, Medium Grained 20%, Fine Grained 80%																	20	11:12
	25																		25	11:14
	30	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																30	11:16
	35	Wet at 35'																	35	11:17
		TD: 35'																	35	

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>04-24-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-9</u>		

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:45 Finish: 10:56 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS	
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY		DEPTH
					2	4	6	8	10	12	14	16	18						
	0	Sand, 7.5YR, 4/4, Brown, Fine Grained Quartz Sand, Sub- Rounded	SW																10:45
	5	Caliche, 7.5YR, 8/3, Pink Fine Grained Quartz Sand, Sub- Angular	Caliche																10:47
	10																		10:49
	15	7.5YR, 8/3, Pink																	10:50
	20	Sand, Fine Grained Quartz Sand, Sub- Rounded	SW																10:51
	22																		
	25	Caliche, 7.5YR, 8/3, Pink, Fine Grained Quartz Sand	Caliche																10:54
	30	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																10:55
	35	Wet at 35'																	10:56
		TD: 35'																	

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>04-24-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-10</u>		

BORING RECORD																				
GEOLOGIC UNIT	DEPTH	Start: 10:27 Finish: 10:38 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS		
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY		DEPTH	
					2	4	6	8	10	12	14	16	18							
	0	Sand, 7.5YR, 7/4, Pink Fine Grain Quartz Sand, Sub-Rounded	SW																0	10:27
	5	Caliche, 7.5YR, 8/2, Pinkish White, Fine Grained Quartz Sand																	5	10:29
	10		Caliche																10	10:30
	15																		15	10:31
	20	Medium Grained Quartz Sand																	20	10:32
	25	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded																	25	10:35
	30																		30	10:31
	35	Wet at 35'																		
		TD: 35'																	35	10:38

	ONE CONTINUOUS AUGER SAMPLER		WATER TABLE (TIME OF BORING)
	STANDARD PENETRATION TEST		LABORATORY TEST LOCATION
	UNDISTURBED SAMPLE		PENETROMETER (TONS/ SQ. FT)
	WATER TABLE (24 HRS)		NR NO RECOVERY

	DRILL DATE :	BORING NUMBER :	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
	<u>04-24-2018</u>	<u>DP-11</u>	HOLE DIAMETER : <u>7.25"</u>
			LOCATION : <u>EMSU B SAT 13</u>
			LAI GEOLOGIST : <u>A. Thielke</u>
			DRILLING CONTRACTOR : <u>SDC</u>
			DRILLING METHOD : <u>Air Rotary</u>

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 9:43 Finish: 9:56 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS				
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING			
					2	4	6	8	10	12	14	16	18									
	0	Sand, 7.5YR, 7/4, Pink Fine Grained Quartz Sand, Sub- Rounded	SW																0	9:43	SOIL : _____ PPM SOIL : _____ PPM	
	5	Caliche, 7.5YR, 8/3, Pink Well Cemented, Quartz Sand, Sub- Angular	Caliche																5	9:45		
	10																			10	9:46	
	15																			15	9:48	
	20																			20	9:49	
	25																			25	9:53	
	30	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																30	9:54		
	35	Wet at 35'																		9:56		
		TD: 35'	Water																35			

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : _____
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>
		DRILLING CONTRACTOR : <u>SDC</u>
DRILL DATE : <u>04-24-2018</u>		DRILLING METHOD : <u>Air Rotary</u>
BORING NUMBER : <u>DP-12</u>		

BORING RECORD																						
GEOLOGIC UNIT	DEPTH	Start: 10:06 Finish: 10:19 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS				
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY		DEPTH			
					2	4	6	8	10	12	14	16	18									
	0	Sand, 7.5YR, 5/4, Brown, Fine Grained Quartz Sand, Sub-Rounded	SW																0	10:06	SOIL : _____ PPM SOIL : _____ PPM	
	5	Caliche, 7.5YR, 8/3, Pink, Fine Medium Grained Quartz Sand	Caliche																5	10:08		
	10																			10	10:10	
	15																			15	10:12	
	20																			20	10:13	
	25	Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded	SW																25	10:15		
	30																			30	10:17	
	35	Wet at 35'																				
		TD: 35'																	35	10:19		

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>XTO Energy/ 17-0193-01</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>7.25"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>EMSU B SAT 13</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>A. Thielke</u>

	DRILL DATE :	BORING NUMBER :	DRILLING CONTRACTOR :
	04-24-2018	DP-13	SDC
			DRILLING METHOD : <u>Air Rotary</u>

Appendix E

Photographs

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Trunk Line Release (1RP-4832) Viewing North, July 5, 2018



Trunk Line Release (1RP-4832) Viewing South, July 5, 2018

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Excavation Area Viewing Northwest, December 4, 2018

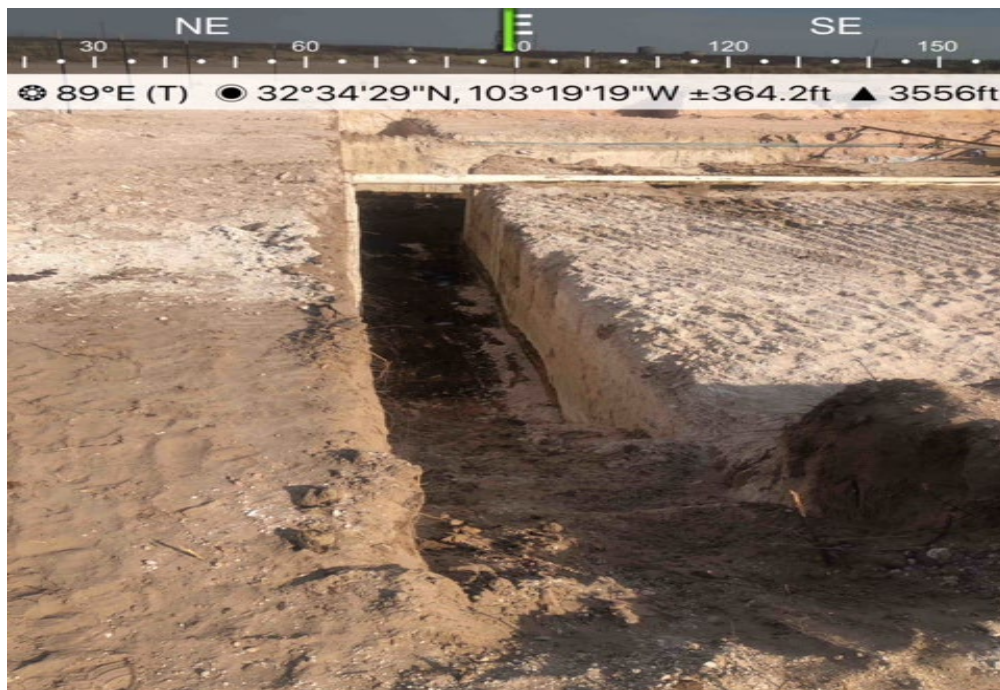


Excavation Area Viewing Southeast, December 4, 2018

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Second Release (1RP-5340) in Excavation Viewing South, January 17, 2019



Second Release (1RP-5340) in Excavation Viewing East, January 17, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Lined Excavation Prior to Cutting and Purging the Flowline, March 8, 2019



Excavation Area Viewing West, May 9, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Excavation Area Viewing Northeast, May 9, 2019



Liner Installation Viewing Southwest, May 17, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Liner Installation Viewing West, May 17, 2019



Excavation Backfilling Viewing West, May 20, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Excavation Backfilling Prior to Installing New Fiberglass Line Viewing South

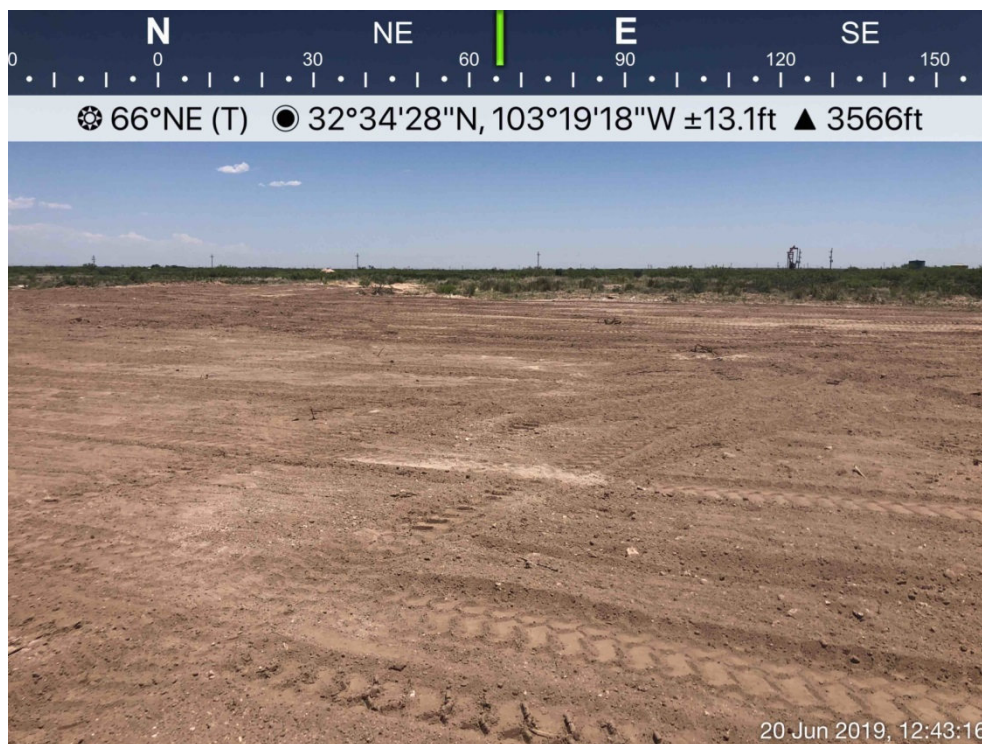


Sand Padding over Flowlines Viewing East, June 12, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Caliche Filled Excavation to 1.5 feet bgs Viewing South, June 17, 2019



Completed Excavation Backfilling Viewing Northeast, June 20, 2019

1RP-4832
Closure Report
EMSU Satellite 13 Trunk Line
July 3, 2019



Completed Excavation Backfilling Viewing West, June 20, 2019

Appendix F

OSE Permit

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 635652
File Nbr: L 14590

Dec. 12, 2018

SHELBY PENNINGTON
XTO ENERGY INC
6401 HOLIDAY HILL ROAD
BUILDING 5
MIDLAND, TX 79707

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,


Andrew Dennis
(575) 622-6521

Enclosure

explore

File No. L-14590



NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL
WITH NO CONSUMPTIVE USE OF WATER

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose: ☐ Pollution Control And / Or Recovery ☐ Geo-Thermal
☐ Exploratory ☐ Construction Site De-Watering ☐ Other (Describe):
☒ Monitoring ☐ Mineral De-Watering

A separate permit will be required to apply water to beneficial use.

☐ Temporary Request - Requested Start Date: Requested End Date:Plugging Plan of Operations Submitted? ☐ Yes ☐ No

1. APPLICANT(S)

Name: XTO Energy, Inc.	Name:
Contact or Agent: Shelby Pennington check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: 6401 Holiday Hill Road, Building 5	Mailing Address:
City: Midland	City:
State: TX Zip Code: 797-7	State: Zip Code:
Phone: (281)723-9353 ☐ Home ☒ Cell Phone (Work): (432) 571-8276	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): Shelby_Pennington@xtoenergy.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 4/12/12

File Number: L-14590	Trn Number: 635652
Trans Description (optional):	
Sub-Basin: L	
PCW/LOG Due Date: 12/12/19	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- ☐ NM State Plane (NAD83) (Feet)
 ☐ UTM (NAD83) (Meters)
 ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)
- ☒ NM West Zone
 ☐ Zone 12N
- ☐ NM East Zone
 ☐ Zone 13N
- ☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
TMW-1	103°19'18.6479" w	32°34'30.2635"n	SW/4, NE/4 S14 T20S R37, Lea County, NME
TMW-2	103°19'17.6548" w	32°34'28.2199"n	

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

Other description relating well to common landmarks, streets, or other: _____

Well is on land owned by: **Jimmy Cooper**

Well Information: **NOTE:** If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☐ No
If yes, how many _____

Approximate depth of well (feet): 45.00	Outside diameter of well casing (inches): 2.00
Driller Name: Layne Scarborough	Driller License Number: WD-1188

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Wells will be used to delineate and monitor groundwater contamination for up to 2 years.

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number:

L-14590

Trn Number:

635652

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	Construction De-Watering: ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	Mine De-Watering: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Geo-Thermal: ☐ Include a description of the geothermal heat exchange project, ☐ The amount of water to be diverted and re-injected for the project, ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)),

Shelby Pennington

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Shelby G Pennington

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 12th day of December 20 18, for the _____ Engineer

Tom Blaine, P.E., State Engineer, State Engineer

By: _____
Signature

Print

Title: Juan Hernandez, Water Resources Manager 1
Print



FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: L-14590

Trn Number: 635652

Page 3 of 3

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion L 14590 POD1 must be completed and the Well Log filed on or before 12/12/2019.
- LOG The Point of Diversion L 14590 POD2 must be completed and the Well Log filed on or before 12/12/2019.

Trn Desc: L 14590 POD1-2File Number: L 14590Trn Number: 635652

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 11/05/2018	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 12 day of Dec A.D., 2018

Tom Blaine, P.E.

State Engineer

By:

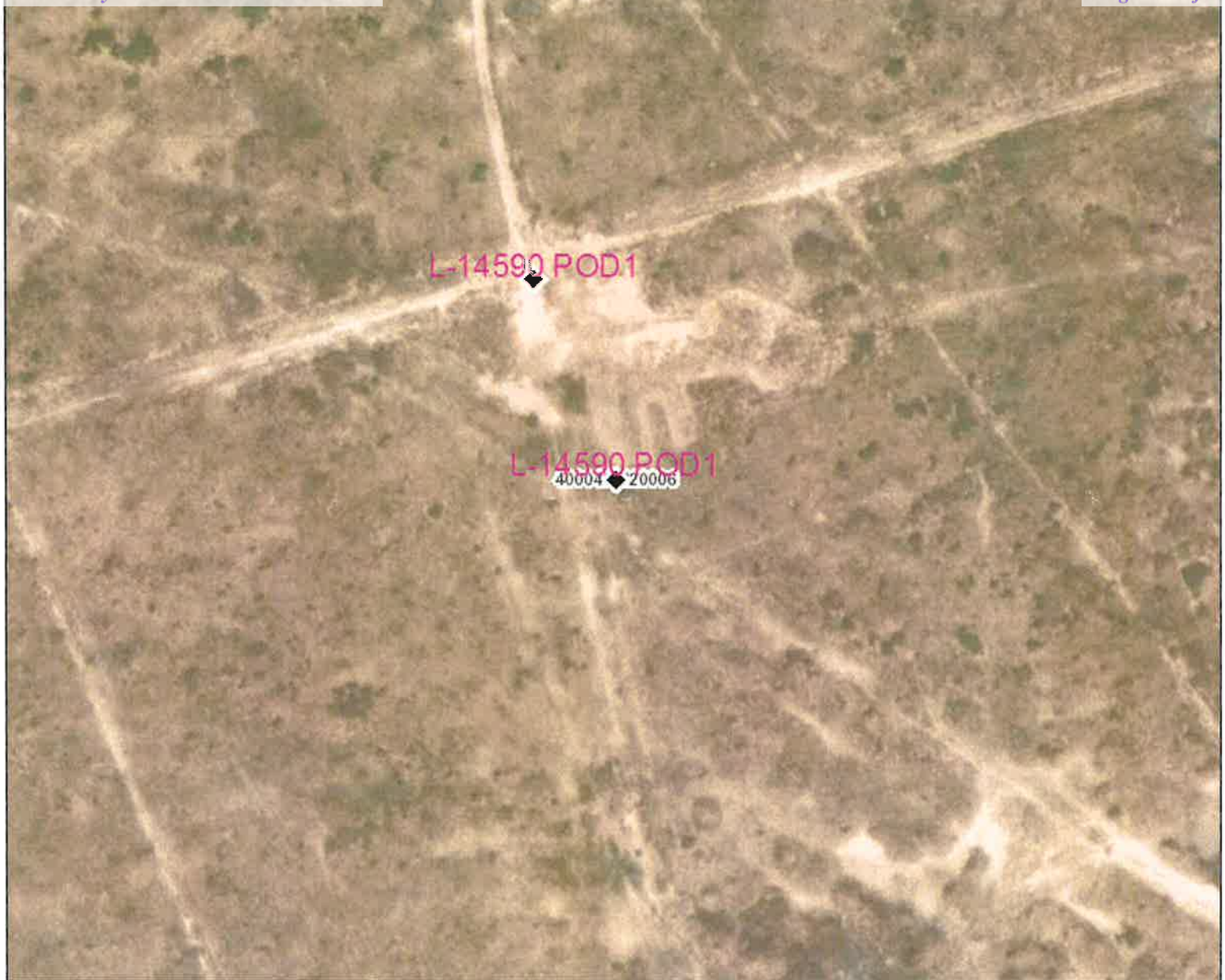
JUAN HERNANDEZ



Trn Desc: L 14590 POD1-2

File Number: L 14590

Trn Number: 635652



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 657523.637
 Northing 3605422.777

State Plane - NAD 83 (ft) - Zone E

Easting 852923.187
 Northing 574421.249

Degrees Minutes Seconds

Latitude 32 : 34 : 30.263500
 Longitude -103 : 19 : 18.647900

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

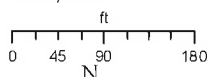


Image Info
 Source: DigitalGlobe
 Date: 10/27/2016
 Resolution (m):0.5
 Accuracy (m): 10.16

Spatial Information

OSE Administrative Area: Lea
 County: Lea
 Groundwater Basin: Lea County
 Abstract Area: Lea County
 Sub-Basin: Landreth-Monumnet Draws
 Land Grant: Not in Land Grant
Restrictions:
 Lea County Critical Management Area

PLSS Description

SENE SWNE Qtr of Sec 14 of 020S 036E

Derived from CADNSDI- Qtr Sec. locations are
 calculated and are only approximations

POD Information

Owner: XTO Energy, Inc.
 File Number: L-14590 POD1&2
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose: MON

A. Dennis

12/12/2018

This document is the property of the New Mexico Office of the State Engineer (OSE). It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the OSE. This document is provided for your use only and is not to be distributed outside your agency. If you have any questions, please contact the OSE at (505) 824-1234.



- ◆ Coord Search Location
- WRAB Abstract Project Areas
- Lea County Parcels 2018
- Sections

October 19, 2018

Office of the State Engineer, District II
Water Resources Manager I
1900 West Second Street; Roswell, NM 88201-1712

ATT: Bill Duemling

Re: RP-4721 EMSU Satellite 13 Trunk Line Release – Landowner Approval to Install Monitoring Wells
Unit K (SE/4, NE/4), Section 14, Township 20 South, Range 36 East, Lea County, New
Mexico

Dear Mr. Duemling:

As required by the State of New Mexico Oil Conservation Division (NMOCD), I (Jimmie Cooper) grant approval to XTO Energy, Inc., to install monitoring wells as required by the New Mexico Oil Conservation Division (OCD) on the above captioned property located in Lea County, New Mexico.

Sincerely,



Jimmie Cooper
Jimmie Cooper Family Trust

2018 NOV -5 PM 1:13
STATE ENGINEER
OFFICE
DISTRICT II
ROSWELL, NM

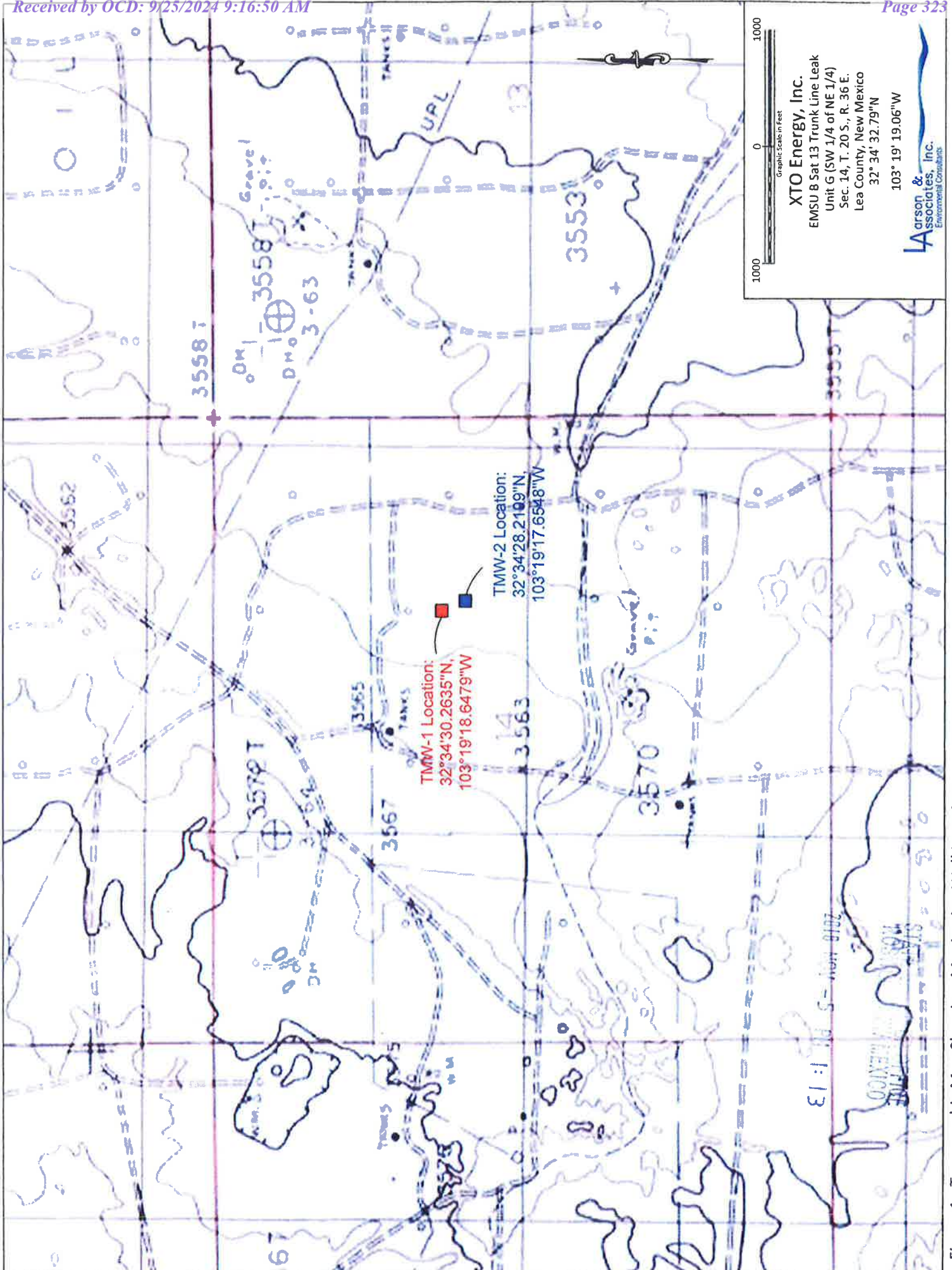


Figure 1 - Topographic Map Showing Monitoring Well Locations

October 19, 2018

Office of the State Engineer, District II
Water Resources Manager I
1900 West Second Street; Roswell, NM 88201-1712

ATT: Bill Duemling

Re: RP-4721 EMSU Satellite 13 Trunk Line Release – Landowner Approval to Install Monitoring Wells
Unit K (SE/4, NE/4), Section 14, Township 20 South, Range 36 East, Lea County, New
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Sincerely,



Jimmie Cooper
Jimmie Cooper Family Trust

2018 NOV -5 PM 1:13
STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
DISTRICT II
ROSWELL, NM

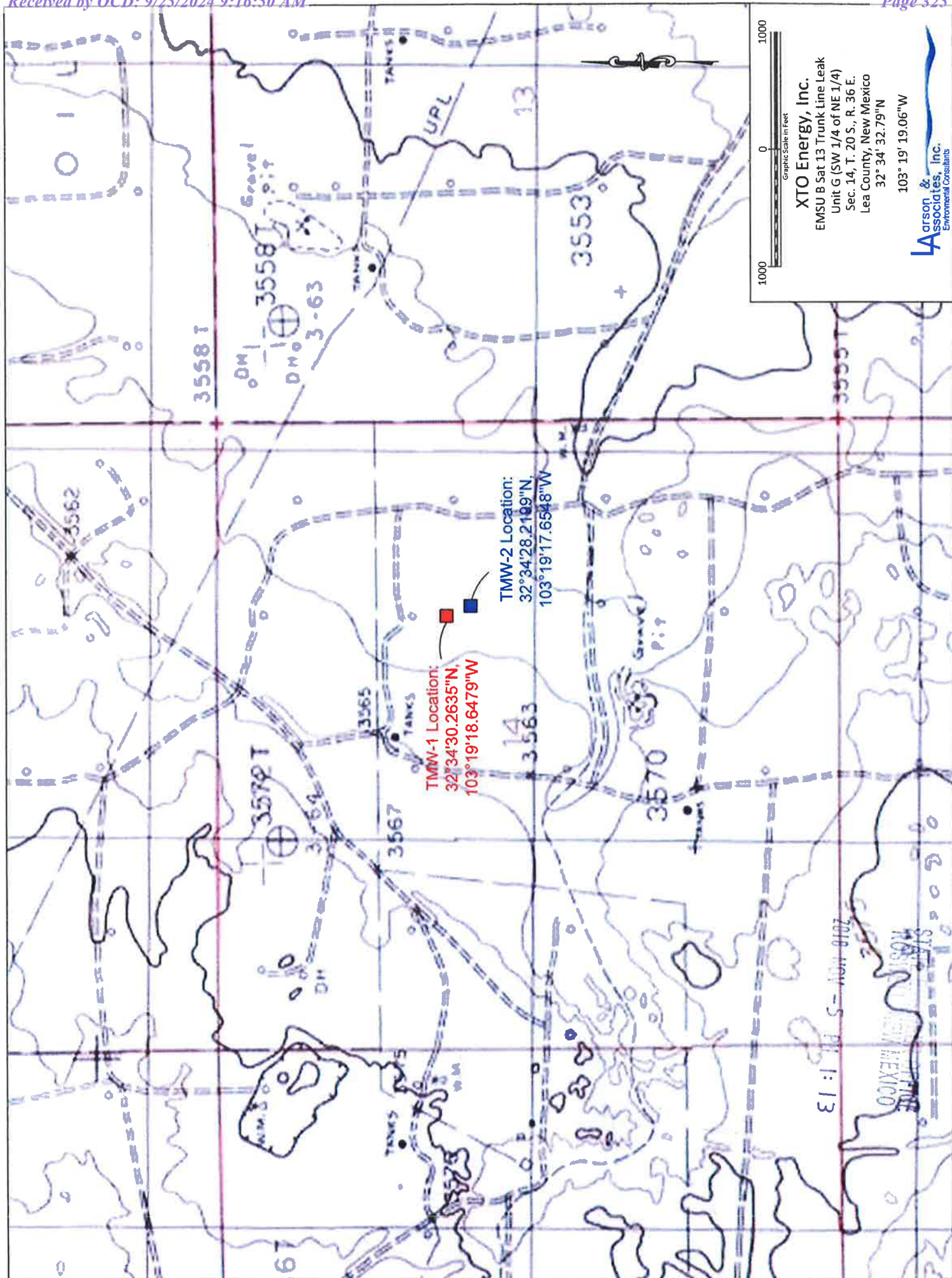


Figure 1 - Topographic Map Showing Monitoring Well Locations

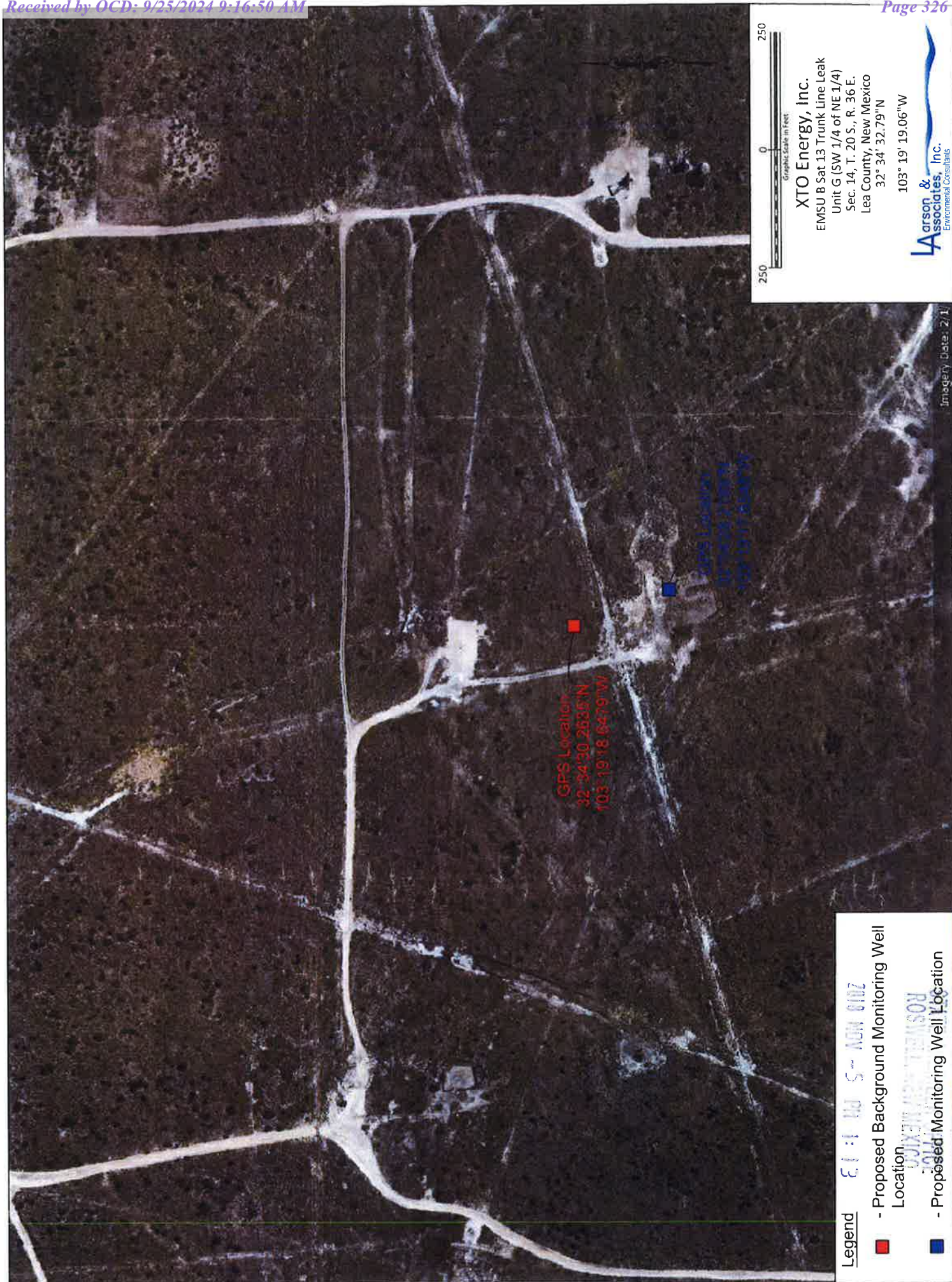


Figure 2 - Aerial Map



October 31, 2018

New Mexico Office of the State Engineer
1900 W 2nd Street
Roswell, NM 88201

ATT: Bill Duemling

Re: Temporary Monitoring Well Permit Application

Larson & Associates, Inc. (LIA), on behalf of XTO Energy, Inc. (XTO), submits the enclosed application and fee (\$10.00) for completing two (2) temporary monitoring wells in Unit G (SW/4, NE/E), Section 14, Township 20 South and Range 36 East in Lea County, New Mexico. Please see attached drawing for the proposed well locations. The wells will be installed on land owned by Jimmy Cooper (Jimmy Cooper Family Trust). Please see attached letter granting permission from the landowner to install the wells. Please contact Shelby Pennington with XTO at (432) 682-8873 or Shelby_Pennington@xtoenergy.com or me, if you have questions.

Sincerely,

Larson & Associates, Inc.

A handwritten signature in blue ink, appearing to read 'Mark J. Larson', is written over a faint, light blue circular stamp.

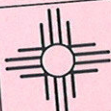
Mark J. Larson, P.G.
President/Sr. Hydrogeologist

Encl.

cc: Shelby Pennington

STATE ENGINEER
NEW MEXICO
2018 NOV -5 PM 1:13

Appendix G
Waste Manifests



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 490455

LEASE OPERATOR/SHIPPER/COMPANY: *XHO*

LEASE NAME: *EMSU Sat #13*

TRANSPORTER COMPANY: *SDR*

DATE: *12-6-18*

VEHICLE NO: *20*

TIME *11:44* AM/PM

GENERATOR COMPANY
MAN'S NAME: *Scott Colfman*

RIG NAME
AND NUMBER

575-394-3362

CHARGE TO: *XHO*

TYPE OF MATERIAL

☐ Production Water

☐ Tank Bottoms

☐ Solids

☐ Drilling Fluids

☒ Contaminated Soil

☐ BS&W Content: *00*

☐ Rinsate

☐ Jet Out

☐ Call Out

Description: _____

C-133# *LC1*

RRC or API # _____

VOLUME OF MATERIAL ☐ BBLs. _____

☒ YARD *20*

☐ _____

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

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

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

DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

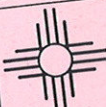
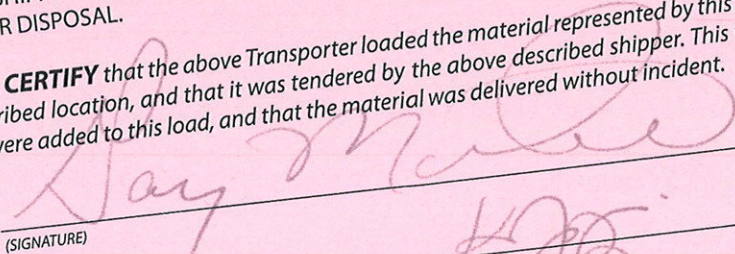
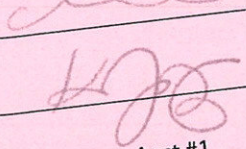
(SIGNATURE)

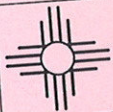
White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

 SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511		TICKET No. 490433	
LEASE OPERATOR/SHIPPER/COMPANY: XTO		TIME 9:50 AM/PM	
LEASE NAME: EMSU Sat #13		GENERATOR COMPANY MAN'S NAME: Scott Coffman	
TRANSPORTER COMPANY: SDR		RIG NAME AND NUMBER 575-294-3362	
DATE: 12-6-18		VEHICLE NO: 30	
CHARGE TO: XTO			
TYPE OF MATERIAL			
☐ Production Water			
☐ Tank Bottoms			
☐ Solids			
☐ Drilling Fluids			
☒ Contaminated Soil			
☐ BS&W Content:			
☐ Rinsate			
☐ Jet Out			
☐ Call Out			
Description: C-133# 69.			
RRC or API #			
VOLUME OF MATERIAL ☐ BBLS. ☒ YARD 20			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.			
DRIVER:  (SIGNATURE)			
FACILITY REPRESENTATIVE:  (SIGNATURE)			
White - Sundance		Canary - Sundance Acct #1	
Pink - Transporter			
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004			



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No.

490418

LEASE OPERATOR/SHIPPER/COMPANY: *XTO*

LEASE NAME: *EMSV sat #13*

TIME *8:01* AM/PM

TRANSPORTER COMPANY: *SDR*

GENERATOR COMPANY
MAN'S NAME: *Scott Kaufman*

DATE: *12-6-18* VEHICLE NO: *30*

RIG NAME
AND NUMBER

575-394-3622

CHARGE TO: *XTO*

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Solids

- ☐ Drilling Fluids
☒ Contaminated Soil
☐ BS&W Content: *CD*

- ☐ Rinsate
☐ Jet Out
☐ Call Out

Description: _____

C-133# *100*

RRC or API # _____

☒ YARD *70*

VOLUME OF MATERIAL ☐ BBLs. _____

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

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

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DRIVER: _____

(SIGNATURE)

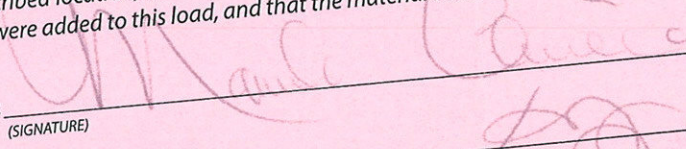
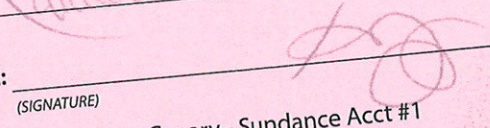
FACILITY REPRESENTATIVE: _____

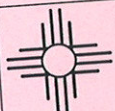
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

 SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511		TICKET No. 490419	
LEASE OPERATOR/SHIPPER/COMPANY: XTO		TIME 8:09 AM/PM	
LEASE NAME: EMSU sat #13		GENERATOR COMPANY MAN'S NAME: Scott Colman	
TRANSPORTER COMPANY: SDR		RIG NAME AND NUMBER: 575-394-3362	
DATE: 12-6-18		VEHICLE NO: 29	
CHARGE TO: XTO			
TYPE OF MATERIAL			
☐ Production Water	☐ Drilling Fluids	☐ Rinsate	
☐ Tank Bottoms	☐ Contaminated Soil	☐ Jet Out	
☐ Solids	☐ BS&W Content:	☐ Call Out	
Description: ch		C-133# L.P.C.	
RRC or API #		[] YARD 70	
VOLUME OF MATERIAL [] BBLs.		[]	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.			
DRIVER:  (SIGNATURE)			
FACILITY REPRESENTATIVE:  (SIGNATURE)			
White - Sundance		Pink - Transporter	
Canary - Sundance Acct #1			
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004			

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **490434**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSV 547 #13**TRANSPORTER COMPANY: **SDR**DATE: **12-6-18** VEHICLE NO: **29**GENERATOR COMPANY
MAN'S NAME: **Scott Coffman**RIG NAME
AND NUMBER**575-394-3362**CHARGE TO: **XTO****TYPE OF MATERIAL**☐ Production Water☐ Tank Bottoms☐ Solids☐ Drilling Fluids☒ Contaminated Soil☐ BS&W Content:☐ Rinsate☐ Jet Out☐ Call OutDescription: **oil**C-133# **LEG.**

RRC or API #

VOLUME OF MATERIAL

☐ BBLS.☒ YARD **20**☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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TICKET No. 490457

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

LEASE NAME: EMSU Sat #13

TRANSPORTER COMPANY: SDP

TIME 11:50 AM/PM

DATE: 12-6-18 VEHICLE NO: 29

GENERATOR COMPANY
MAN'S NAME: Scott Coffman

CHARGE TO: *X 10*

RIG NAME AND NUMBER 575-394-3362

TYPE OF MATERIAL

[1] Production Water

[] Drilling Fluids

[] Rinsate

[] Tank Bottoms

☒ Contaminated Soil

[] Jet Out

[] Solids

[] BS&W Content:

[] Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL [] BBLS. _____ : [☒] YARD 20 : [] _____

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

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DRIVER:

(SIGNATURE)

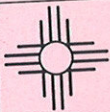
FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **490142**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSU sat #13**TRANSPORTER COMPANY: **SDR**DATE: **12-4-18** VEHICLE NO: **30**GENERATOR COMPANY
MAN'S NAME: **Scott Kaufman**TIME **3:51** AM/PMRIG NAME
AND NUMBER**575-394-3362**CHARGE TO: **XTO****TYPE OF MATERIAL**

- ☐ Production Water
☐ Tank Bottoms
☐ Solids

- ☐ Drilling Fluids
☒ Contaminated Soil
☐ BS&W Content:

- ☐ Rinsate
☐ Jet Out
☐ Call Out

Description: **cn**C-133# **lea.**

RRC or API #

VOLUME OF MATERIAL ☐ BBLs. _____☒ YARD **20** : ☐ _____

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 490276**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU #1 SCH #13TRANSPORTER COMPANY: SDRTIME 1:11 AM/PM (M)DATE: 12-5-18 VEHICLE NO: 29GENERATOR COMPANY
MAN'S NAME: Scott KaldmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: Oil

RRC or API #

C-133# Lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 490254LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: Emsu sat #13TRANSPORTER COMPANY: SORTIME 11:00 AM/PMDATE: 12-5-18 VEHICLE NO: 29.GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: oil

RRC or API #

C-133# CPA.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **490223**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSU SCH #13**TRANSPORTER COMPANY: **SDR**TIME **8:34** AM/PMDATE: **12-5-18** VEHICLE NO: **30**GENERATOR COMPANY
MAN'S NAME: **Scott Kaufman**CHARGE TO: **XTO**RIG NAME
AND NUMBER**575-394-3362****TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: **CO**

RRC or API #

C-133#

CPA

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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

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DRIVER: **Ray McLee**

(SIGNATURE)

FACILITY REPRESENTATIVE: **K78**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 490243

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU Sat #13

TRANSPORTER COMPANY: SDR

TIME 10:41 AM/PM

DATE: 12-5-18 VEHICLE NO: 30

GENERATOR COMPANY
MAN'S NAME: Scott Kaelman

CHARGE TO: XTO

RIG NAME
AND NUMBER

675-394-3362

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: ab

RRC or API #

C-133# Lea.

VOLUME OF MATERIAL [] BBLs. : [] YARD 20 : []

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 490081**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU scit #13TRANSPORTER COMPANY: SDRDATE: 12-4-18 VEHICLE NO: 31TIME 10:51 AM/PMGENERATOR COMPANY
MAN'S NAME: Colt ColtmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-2862**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: on

RRC or API #

C-133# Lea.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD20

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 490112LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMISU SALT #13TRANSPORTER COMPANY: SDRTIME 1:47 AM/PMDATE: 12-9-18VEHICLE NO: 31GENERATOR COMPANY
MAN'S NAME: South ColemanCHARGE TO: XTORIG NAME
AND NUMBER 375-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: db

RRC or API #

C-133# lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 70 : ☐ _____

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 490050LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: FM SU SCIT # 13TRANSPORTER COMPANY: SDRTIME 8:13 AM/PMDATE: 12-4-18 VEHICLE NO: 31GENERATOR COMPANY
MAN'S NAME: Scott ColfmanCHARGE TO: XTORIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CD

RRC or API #

C-133# CPAVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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

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

DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 490113**LEASE OPERATOR/SHIPPER/COMPANY: X70LEASE NAME: EMSU sat #13TRANSPORTER COMPANY: DRTIME 1:49 AM/PMDATE: 12-4-18 VEHICLE NO: 30GENERATOR COMPANY
MAN'S NAME: Scott OlfmanCHARGE TO: X70RIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: dh

RRC or API #

C-133# lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 20 : ☐ _____

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

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

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

DRIVER: Ray Miller

(SIGNATURE)

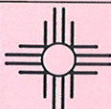
FACILITY REPRESENTATIVE: X70

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 490083**LEASE OPERATOR/SHIPPER/COMPANY: YTOLEASE NAME: EMSU sat #13TRANSPORTER COMPANY: SDRTIME 10:59 AM/PMDATE: 12-4-18VEHICLE NO: 30GENERATOR COMPANY
MAN'S NAME: Scott ColemanCHARGE TO: YTORIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: oil

RRC or API #

C-133# 600

VOLUME OF MATERIAL

☐ BBLs. _____☒ YARD 20☐ _____

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

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 490051**LEASE OPERATOR/SHIPPER/COMPANY: X70LEASE NAME: EMSU sat #13TRANSPORTER COMPANY: SDRTIME 8:14 AM/PMDATE: 12-4-18 VEHICLE NO: 29GENERATOR COMPANY
MAN'S NAME: Scott ColpmanCHARGE TO: X70RIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: db

RRC or API #

C-133# 6eaVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **489518**

LEASE OPERATOR/SHIPPER/COMPANY: **XTO**

LEASE NAME: **EMISU sat 13**

TRANSPORTER COMPANY: **SDR**

TIME **1:23** AM/PM

DATE: **11-30-18** VEHICLE NO: **030**

GENERATOR COMPANY
MAN'S NAME: **Scott Kautzman**

CHARGE TO: **XTO**

RIG NAME
AND NUMBER **575-394-3362**

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: **(n)**

RRC or API #

C-133# **(-pa)**

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD **20** : ☐ _____

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

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DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter


SUNDANCE SERVICES, Inc.

 P.O. Box 1737 Eunice, New Mexico 88231
 (575) 394-2511

TICKET No. 489924

 LEASE OPERATOR/SHIPPER/COMPANY: XTO

 LEASE NAME: EMSV Sct #13

 TRANSPORTER COMPANY: SDR.

 DATE: 12-3-18 VEHICLE NO: 22

 GENERATOR COMPANY
 MAN'S NAME: Scott Kaufman

 TIME 12:52 AM/PM

 CHARGE TO: XTO

 RIG NAME
 AND NUMBER

575-394-3367
TYPE OF MATERIAL
☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☐ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

 Description: do

RRC or API #

 C-133# 49a.

 VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489893**LEASE OPERATOR/SHIPPER/COMPANY: X+ULEASE NAME: EMU sat #13TRANSPORTER COMPANY: SDRTIME 10:37 AM/PMDATE: 12-3-18VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: X+URIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: oil

RRC or API #

C-133# 100VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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

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DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489873**LEASE OPERATOR/SHIPPER/COMPANY: X10LEASE NAME: EMSU sat #13TRANSPORTER COMPANY: SDRTIME 8:13 AM/PMDATE: 12-3-18 VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Ruth KaufmanCHARGE TO: X10RIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: cb

RRC or API #

C-133# leg.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489923

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: emsu sat #13

TRANSPORTER COMPANY: DDP

TIME 12:51 AM/PM

DATE: 12-3-18 VEHICLE NO: 31

GENERATOR COMPANY
MAN'S NAME: Scott Kaufman

CHARGE TO: XTO

RIG NAME
AND NUMBER

575-394-3362

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: CD

RRC or API #

C-133# lea.

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD 20 : ☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489896

LEASE OPERATOR/SHIPPER/COMPANY: *Xto*

LEASE NAME: *Emso sat #13*

TRANSPORTER COMPANY: *SDR*

TIME *10:50* AM/PM

DATE: *12-2-18* VEHICLE NO: *031*

GENERATOR COMPANY
MAN'S NAME: *Scott Kaufman*

CHARGE TO: *Xto*

RIG NAME
AND NUMBER *575-394-3362*

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *00*

RRC or API #

C-133# *(PCA)*

VOLUME OF MATERIAL [] BBLs. _____ :

[] YARD *20* :

[] _____

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

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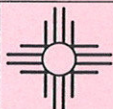
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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489872**LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: EMISU sat #13TRANSPORTER COMPANY: SDRTIME 8:10 AM/PMDATE: 12-3-18 VEHICLE NO: Mon 031GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XHORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CD

RRC or API #

C-133#

CEA

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD20

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



TICKET No. 489897

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

LEASE NAME: cmsu sat #13

TRANSPORTER COMPANY:

TIME 10:53 AM/PM

DATE: 12-3-18

VEHICLE NO: 29

GENERATOR COMPANY
MAN'S NAME:

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

[] Drilling Fluids

[] Rinsate

[] Tank Bottoms

☐ Contaminated Soil

[] Jet Out

[] Solids

[] BS&W Content:

[] Call Out

Description:

RRC or API #

C-133# 100

VOLUME OF MATERIAL

[] BBLS.

[] YARD

[]

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

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

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

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489925

LEASE OPERATOR/SHIPPER/COMPANY: XHO

LEASE NAME: EMSU S97 #13

TRANSPORTER COMPANY: SDR

DATE: 12-3-18 VEHICLE NO: 29

GENERATOR COMPANY
MAN'S NAME: Spot # Kallman

TIME 2:55 AM/PM

CHARGE TO: XHO

RIG NAME
AND NUMBER 375-394-3362

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: no

RRC or API #

C-133# 666

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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DRIVER: [Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **489875**

LEASE OPERATOR/SHIPPER/COMPANY: **KTO**

LEASE NAME: **Emsu sat #13**

TRANSPORTER COMPANY: **SDR**

TIME **8:24** AM/PM

DATE: **12-3-18** VEHICLE NO: **29**

GENERATOR COMPANY
MAN'S NAME: **Scott Kaufman**

CHARGE TO: **KTO**

RIG NAME
AND NUMBER **575-394-3362**

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: **cb**

RRC or API #

C-133# **CPA**

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD **20** : ☐

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

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DRIVER: **Scott Kaufman**

(SIGNATURE)

FACILITY REPRESENTATIVE: **KTO**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489358**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: Emso Scott 13TRANSPORTER COMPANY: SDRTIME 2:15 AM/PMDATE: 11-29-18VEHICLE NO: 006

GENERATOR COMPANY

MAN'S NAME: Scott KautmanCHARGE TO: XtoRIG NAME
AND NUMBER(575) 394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CD

RRC or API #

C-133# CPD

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489352**LEASE OPERATOR/SHIPPER/COMPANY: YTOLEASE NAME: EMSU salt #13TRANSPORTER COMPANY: SPRTIME 1:46 AM/PM (M)DATE: 11-29-18 VEHICLE NO: 11GENERATOR COMPANY
MAN'S NAME: Soft KautmanCHARGE TO: YTORIG NAME
AND NUMBER(575) 394-3862**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CH

RRC or API #

C-133#

6691VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489456

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: CMSU Sct #13

TRANSPORTER COMPANY: SDR

TIME 8:09 AM/PM

DATE: 11-30-18 VEHICLE NO: 011

GENERATOR COMPANY
MAN'S NAME: Scott Kaufman

CHARGE TO: XTO

RIG NAME
AND NUMBER

575-394-3362

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: CD

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

12

☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489471LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU scit #13TRANSPORTER COMPANY: SDRTIME 9:51 AM/PMDATE: 11-30-18 VEHICLE NO: 022GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER375-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: oil

RRC or API #

C-133# Lea.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD12

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **489455**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSU SCH 13**TRANSPORTER COMPANY: **SDR**TIME **8:07** (AM/PM)DATE: **11-30-18** VEHICLE NO: **022**GENERATOR COMPANY
MAN'S NAME: **Scott Krautman**CHARGE TO: **XTO**RIG NAME
AND NUMBER**575-394-2362****TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: **oil**

RRC or API #

C-133#

Lea.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD**12**

:

☐

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

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DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489472LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: Emisu sat # 13TRANSPORTER COMPANY: SDRTIME 9:50 AM/PMDATE: 11-30-18 VEHICLE NO: 011GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XHORIG NAME
AND NUMBER: 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: oil

RRC or API #

C-133# 600

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD12

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489494**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: Emsu sat 13TRANSPORTER COMPANY: SDRTIME 11:36 AM/PMDATE: 11-30-18 VEHICLE NO: 011GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: oil

RRC or API #

C-133# Lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489454LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU sat 13TRANSPORTER COMPANY: SDRTIME 8:02 AM/PMDATE: 11-30-18 VEHICLE NO: 030GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: OD

RRC or API #

C-133# Lea.VOLUME OF MATERIAL ☐ BBLs. _____:☒ YARD 20:☐ _____

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

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DRIVER: Day Mikel

(SIGNATURE)

FACILITY REPRESENTATIVE: XTO

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489496LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU Satt #13TRANSPORTER COMPANY: SDRTIME 11:40 AM/PMDATE: 11-30-18 VEHICLE NO: 30GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER(575) 394 3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: OO

RRC or API #

C-133# UGA

VOLUME OF MATERIAL

☐ BBLs.☒ YARD 20☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489474LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU Soil 13TRANSPORTER COMPANY: SDRTIME 9:58 AM/PMDATE: 11-30-18 VEHICLE NO: 30GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: dn

RRC or API #

C-133# LCI

VOLUME OF MATERIAL

☐ BBLs. _____☒ YARD 20☐ _____

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

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

DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489340**LEASE OPERATOR/SHIPPER/COMPANY: V40LEASE NAME: Emso salt 13TRANSPORTER COMPANY: SDDTIME 12:14 AM/PMDATE: 11-29-18 VEHICLE NO: 006GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: V40RIG NAME
AND NUMBER(575) 394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: dh

RRC or API #

C-133# (eq.)

VOLUME OF MATERIAL

☐ BBLs. _____ :☐ YARD 20 _____ :☐ _____

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489319**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSV Satt #13TRANSPORTER COMPANY: SDRTIME 10:32 AM/PMDATE: 11-29-18 VEHICLE NO: 006GENERATOR COMPANY
MAN'S NAME: Satt + KaufmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CD

RRC or API #

C-133# Lea.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 70

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489301**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EMSU Satellite #3*TRANSPORTER COMPANY: *SDP*TIME *8:20* AM/PMDATE: *11-29-18* VEHICLE NO: *6*GENERATOR COMPANY
MAN'S NAME: *Scott Coffman*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: *OO*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489298

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSD Satellite #13

TRANSPORTER COMPANY: 3012

DATE: 11-29-18

VEHICLE NO: 11

TIME 8:10 AM/PM

GENERATOR COMPANY
MAN'S NAME: Scott Coffman

CHARGE TO: Xto

RIG NAME
AND NUMBER (575) 394-

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: 00

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 12

:

☐

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

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DRIVER: Leonore Freyres

(SIGNATURE)

FACILITY REPRESENTATIVE: Elaine

(SIGNATURE)

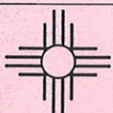
White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489311**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU SOFT #13TRANSPORTER COMPANY: SDRTIME 9:50 AM/PMDATE: 11-29-18VEHICLE NO: 011GENERATOR COMPANY
MAN'S NAME:Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: ch

RRC or API #

C-133#

1 ea.

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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

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DRIVER: Leopoldo Trevino

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489331**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: Emisu satt #13TRANSPORTER COMPANY: SDRDATE: 11-29-18 VEHICLE NO: 011GENERATOR COMPANY
MAN'S NAME:TIME 11:25 AM/PMScott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: ch

RRC or API #

C-133# Lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER: Leonardo Trevino

(SIGNATURE)

FACILITY REPRESENTATIVE: KD

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489216**LEASE OPERATOR/SHIPPER/COMPANY:** Xto**LEASE NAME:** 8msd Satellite # 13**TRANSPORTER COMPANY:** SDR**DATE:** 11-28-18**VEHICLE NO:** 11**TIME** 1:30 **AM/PM****GENERATOR COMPANY**
MAN'S NAME: Scott Adams**CHARGE TO:** Xto**RIG NAME**
AND NUMBER (575) 814 3361**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call Out**Description:** 600**RRC or API #****C-133#****VOLUME OF MATERIAL**☐ BBLs.☐ YARD 12☐

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

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DRIVER: Teodoro Lopez

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489215**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *Emilio Satellite #13*TRANSPORTER COMPANY: *SDR*DATE: *11-28-18* VEHICLE NO: *22*GENERATOR COMPANY
MAN'S NAME: *Scott Coffey*TIME *1:29* AM/PMCHARGE TO: *Xto*RIG NAME
AND NUMBER *(575) 394-3322***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *oo*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.☐ YARD *12*☐

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

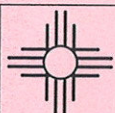
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **489332**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU satt #13TRANSPORTER COMPANY: SBKTIME 11:30 AM/PMDATE: 11-29-18 VEHICLE NO: 022GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER(375) 394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: do

RRC or API #

C-133#

CPGVOLUME OF MATERIAL ☐ BBLS. _____ :☒ YARD 12 :☐ _____

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489312

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: Emsu Satt #13

TRANSPORTER COMPANY: SDR

TIME 9:52 AM/PM

DATE: 11-29-18 VEHICLE NO: 022

GENERATOR COMPANY
MAN'S NAME: Satt Kaufman

CHARGE TO: XTO

RIG NAME
AND NUMBER

575-394-3862

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: CD

RRC or API #

C-133#

LACI

VOLUME OF MATERIAL ☐ BBLs. _____ :

☒ YARD 12 :

☐ _____

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489299LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *Emsh Satellite*TRANSPORTER COMPANY: *SDR*TIME *8:14* AM/PMDATE: *11-29-10*VEHICLE NO: *22*GENERATOR COMPANY
MAN'S NAME: *Scott Collins*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: *OO*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *12*

:

☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 488173LEASE OPERATOR/SHIPPER/COMPANY: XTO Energy.LEASE NAME: Emso Sgt 13TRANSPORTER COMPANY: SDRTIME 12:06 AM/PMDATE: 11-19-18 VEHICLE NO: 11GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ BS&W Content:☐ Call Out

Description: _____

RRC or API #

C-133# (etc.)VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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

DRIVER: Leanne Trevino
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 488147**LEASE OPERATOR/SHIPPER/COMPANY:** XTO**LEASE NAME:** ENISV SGT 13**TRANSPORTER COMPANY:** SPR**TIME** 8:39 AM/PM**DATE:** 11-19-18 **VEHICLE NO:** 006**GENERATOR COMPANY**
MAN'S NAME: Scott Kaufman**CHARGE TO:** XTO**RIG NAME**
AND NUMBER (575)-394-3368**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: OD**RRC or API #****C-133#** Lea.**VOLUME OF MATERIAL** ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 488167**LEASE OPERATOR/SHIPPER/COMPANY:** XTO**LEASE NAME:** Emgu sat 13**TRANSPORTER COMPANY:** SDR**TIME** 10:31 AM/PM**DATE:** 11-19-18 **VEHICLE NO:** 006**GENERATOR COMPANY**
MAN'S NAME: Scott Kaufman**CHARGE TO:** XTO**RIG NAME**
AND NUMBER 575-394-3363**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: ab**RRC or API #****C-133#** 1 ea.**VOLUME OF MATERIAL** ☐ BBLs. : ☒ YARD 20 : ☐

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

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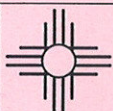
DRIVER: TVA yepac
(SIGNATURE)**FACILITY REPRESENTATIVE:** K32
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 488181**LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: EMISU Sgt 13TRANSPORTER COMPANY: SDRTIME 12:45 AM/PMDATE: 11-19-18 VEHICLE NO: 006GENERATOR COMPANY
MAN'S NAME:Scott KaufmanCHARGE TO: XHORIG NAME
AND NUMBER575-394-3262**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: ob

RRC or API #

C-133# lea.VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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

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DRIVER: TV

(SIGNATURE)

FACILITY REPRESENTATIVE: KJP

(SIGNATURE)



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 488409

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: ENSU sat 13

TRANSPORTER COMPANY: SDR

TIME 8:22 AM/PM

DATE: 11-21-18 VEHICLE NO: 11

GENERATOR COMPANY

MAN'S NAME: Scott Kaufman

CHARGE TO: XTO

RIG NAME
AND NUMBER

575-394-3362

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: oil

RRC or API #

C-133# 600

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

12

☐

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

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DRIVER: Leanne D. Davis

(SIGNATURE)

FACILITY REPRESENTATIVE: KJZ

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 488429**LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: ENSU Sat 13TRANSPORTER COMPANY: SDRTIME 10:15 AM/PMDATE: 11-21-18 VEHICLE NO: 11GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XHORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: CO

RRC or API #

C-133#

CPG

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD12

:

☐

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

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DRIVER: Leonardo Lewis

(SIGNATURE)

FACILITY REPRESENTATIVE: HJB

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489182**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *8msu Satellite #13*TRANSPORTER COMPANY: *SDP*TIME *9:41* AM/PMDATE: *11-28-18* VEHICLE NO: *11*GENERATOR COMPANY
MAN'S NAME: *Scott Kaufman*CHARGE TO: *Xto*RIG NAME
AND NUMBER: *(575) 394-3360***TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *CO*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* : ☐ _____

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

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DRIVER: *Leonard J. ...*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489168**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EMSLI #13*TRANSPORTER COMPANY: *SDR*TIME *8:12* AM/PMDATE: *11-28-18* VEHICLE NO: *11*GENERATOR COMPANY
MAN'S NAME: *Scott Colman*CHARGE TO: *Xto*RIG NAME
AND NUMBER: *(575) 394-3362***TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* : ☐ _____

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

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DRIVER: *Leonardo Jacinto*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489106**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: Saddle Light #13TRANSPORTER COMPANY: SOPTIME 2:50 AM/PMDATE: 11-27-18 VEHICLE NO: 11GENERATOR COMPANY
MAN'S NAME: Scott CoffmanCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-3002**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: 60

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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

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DRIVER: Leanne Trevino

(SIGNATURE)

FACILITY REPRESENTATIVE: Salvador

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489194**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY

MAN'S NAME:

TIME 11:22 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.☒ YARD☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489167**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EMSU Saddle Lake #13*TRANSPORTER COMPANY: *SDR*TIME *8:00* AM/PMDATE: *11-28-18* VEHICLE NO: *022*GENERATOR COMPANY
MAN'S NAME: *Scott Coffman*CHARGE TO: *Xto*RIG NAME
AND NUMBER *(575) 394-3362***TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *OP*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* : ☐ _____

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **489193**LEASE OPERATOR/SHIPPER/COMPANY: *X to*LEASE NAME: *EMS Satellite #13*TRANSPORTER COMPANY: *SDR*DATE: *11-22-18*VEHICLE NO: *22*TIME *11:20* AM/PMGENERATOR COMPANY
MAN'S NAME: *Scott Allen*CHARGE TO: *SDR*RIG NAME
AND NUMBER *(575) 394 3362***TYPE OF MATERIAL**

- | | | |
|---|--|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☐ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* : ☐ _____

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **489181**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: EMSO Satellite #13TRANSPORTER COMPANY: SDRTIME 9:37 AM/PMDATE: 11-28-18 VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Scott ColmanCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content: 00☐ Call Out

Description: _____

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs. _____☒ YARD 12☐ _____

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

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

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

DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489075**LEASE OPERATOR/SHIPPER/COMPANY: X40LEASE NAME: Saddle Light #113TRANSPORTER COMPANY: SDRTIME 11:23 AM/PMDATE: 11-27-15VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Scott ColmanCHARGE TO: X40RIG NAME
AND NUMBER (575) 354 3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: 00

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.☒ YARD 12☐

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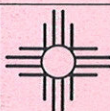
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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489058**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: Saddle 2191F 13TRANSPORTER COMPANY: SDRTIME 9:27 AM/PMDATE: 11-27-13 VEHICLE NO: 022GENERATOR COMPANY
MAN'S NAME: Scott CoffeyCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-3362**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: DD

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 12

:

☐

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489060**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *Saddle Light 13*TRANSPORTER COMPANY: *SPRZ*TIME *9:35* AM/PMDATE: *11-27-15* VEHICLE NO: *011*GENERATOR COMPANY
MAN'S NAME: *Scott Kaufman*CHARGE TO: *Xto*RIG NAME
AND NUMBER: *(575) 394-3362***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.☒ YARD *12*☐

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

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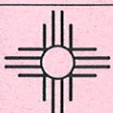
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DRIVER: *Leandro Lopez*

(SIGNATURE)

FACILITY REPRESENTATIVE: *E. Salas*

(SIGNATURE)


SUNDANCE SERVICES, Inc.

 P.O. Box 1737 Eunice, New Mexico 88231
 (575) 394-2511

TICKET No. 489091

 LEASE OPERATOR/SHIPPER/COMPANY: *X to*

 LEASE NAME: *Saddle Light #13*

 TRANSPORTER COMPANY: *SPR*

 DATE: *11-27-18*

 VEHICLE NO: *11*

 GENERATOR COMPANY
 MAN'S NAME: *Scott Cotton*

 TIME *1:19* AM/PM

 CHARGE TO: *X to*

 RIG NAME
 AND NUMBER *(575) 394 3362*
TYPE OF MATERIAL
☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

 Description: *DD*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☐ YARD *12*
☐

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

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 DRIVER: *Leobard Trevino*

(SIGNATURE)

 FACILITY REPRESENTATIVE: *El Gallo*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489076

LEASE OPERATOR/SHIPPER/COMPANY: *XTO*

LEASE NAME: *Saddle Light #13*

TRANSPORTER COMPANY: *SDR*

TIME *11:22* AM/PM

DATE: *11-27-18*

VEHICLE NO: *11*

GENERATOR COMPANY
MAN'S NAME: *Scott Hoffman*

CHARGE TO: *XTO*

RIG NAME
AND NUMBER: *(575) 314 3362*

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *oo*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* _____ : ☐ _____

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DRIVER: *Scott Hoffman*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Salvador*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/16/2024 9:37:59 AM

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 494266**LEASE OPERATOR/SHIPPER/COMPANY:** *Xtu***LEASE NAME:** *8msu Saleable 13***TRANSPORTER COMPANY:** *SDR / M. Mata***TIME** *10:20* AM/PM**DATE:** *1-9-10***VEHICLE NO:** *30***GENERATOR COMPANY
MAN'S NAME:** *Shelby Remington***CHARGE TO:** *Xtu***RIG NAME
AND NUMBER** *DBI-723-9355***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *00***RRC or API #****C-133#****VOLUME OF MATERIAL**☐ BBLs.

:

☐ YARD *20*

:

☐

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

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DRIVER:(SIGNATURE) *Moncerat***FACILITY REPRESENTATIVE:**(SIGNATURE) *Salas*

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494284**LEASE OPERATOR/SHIPPER/COMPANY: *XFO*LEASE NAME: *8msu Satellite, 13*TRANSPORTER COMPANY: *SDR/M. Mata*TIME *12:29* AM/PMDATE: *1-1-19* VEHICLE NO: *12*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *XFO*RIG NAME
AND NUMBER: *923-953***TYPE OF MATERIAL**

- | | | |
|---|--|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☐ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *DD*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD *20* : ☐ _____

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DRIVER: *Adrian*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494283**LEASE OPERATOR/SHIPPER/COMPANY: *X to*LEASE NAME: *Emsu Satellite 13*TRANSPORTER COMPANY: *SDE / M. Mata*TIME *12:27* AM/PMDATE: *1-9-19* VEHICLE NO: *30*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *X to*RIG NAME
AND NUMBER *261-923-9353***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: *DD*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ :☒ YARD *20* :☐ _____

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DRIVER: *Monc...*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 494286

LEASE OPERATOR/SHIPPER/COMPANY: *XTD*LEASE NAME: *8/15/18 Satellite 13*TRANSPORTER COMPANY: *SDR*TIME *12:35* AM/PMDATE: *1-9-18* VEHICLE NO: *36*GENERATOR COMPANY
MAN'S NAME: *Shelby Remington*CHARGE TO: *XTD*RIG NAME
AND NUMBER: *281-723-9353***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *DD*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *20* _____ : ☐ _____

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494285**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *8m514 Satellite 13*TRANSPORTER COMPANY: *SDR*TIME *12:34* AM/PMDATE: *1-9-18* VEHICLE NO: *20*GENERATOR COMPANY
MAN'S NAME: *Shelby R...*CHARGE TO: *Xto*RIG NAME
AND NUMBER *201-703-9353***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. *00* : ☒ YARD *00* : ☐

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

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DRIVER: *David Th...*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Sal...*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494278**LEASE OPERATOR/SHIPPER/COMPANY: *X to*LEASE NAME: *EMSU Satellite 13*TRANSPORTER COMPANY: *SDR*TIME *11:52* AM/PMDATE: *1-9-18*VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *X to*RIG NAME
AND NUMBER *201-739353***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *OP*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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

DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494241**LEASE OPERATOR/SHIPPER/COMPANY: *XTO*LEASE NAME: *PM 5U Satellite 13*TRANSPORTER COMPANY: *SDR / m. mark*TIME *8:19* AM/PMDATE: *1-9-18*VEHICLE NO: *12*GENERATOR COMPANY
MAN'S NAME: *Shelby Reimold*CHARGE TO: *XTO*RIG NAME
AND NUMBER: *281-723 935***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *CO*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD *20* : ☐ _____

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

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DRIVER: *Alan B*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Elili Di*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 494265

LEASE OPERATOR/SHIPPER/COMPANY: *XHV*LEASE NAME: *EMSU Satellite 13*TRANSPORTER COMPANY: *SDR / M. Mala*TIME *10:26* AM/PMDATE: *1-9-18* VEHICLE NO: *12*GENERATOR COMPANY
MAN'S NAME: *Shelby Remington*CHARGE TO: *XHV*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: *OO*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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DRIVER: *Adrian*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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	SUNDANCE SERVICES, Inc.	TICKET No. 494258
	P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	

LEASE OPERATOR/SHIPPER/COMPANY: <i>YTD</i>	
LEASE NAME: <i>Emold Satellite 13</i>	
TRANSPORTER COMPANY: <i>SDR</i>	TIME <i>9:58</i> AM/PM
DATE: <i>1-9-18</i>	VEHICLE NO: <i>29</i>
GENERATOR COMPANY MAN'S NAME: <i>Jolly Pennington</i>	
CHARGE TO: <i>YTD</i>	RIG NAME AND NUMBER: <i>251-723-9353</i>

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: *00*RRC or API # _____ C-133# *Lea City*VOLUME OF MATERIAL ☐ BBLS. _____ : ☒ YARD *20* : ☐ _____

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

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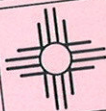
DRIVER: _____
(SIGNATURE)FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 494242

LEASE OPERATOR/SHIPPER/COMPANY: *7th*

LEASE NAME: *8msu Satellite 13*

TRANSPORTER COMPANY: *SDR/M. Mata*

DATE: *1-9-13*

VEHICLE NO: *30*

GENERATOR COMPANY
MAN'S NAME: *Shelby Kennon*

TIME *8:01* AM/PM

RIG NAME
AND NUMBER *251-72-9953*

CHARGE TO: *7th*

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Solids

- ☐ Drilling Fluids
☐ Contaminated Soil
☐ BS&W Content: *00*

- ☐ Rinsate
☐ Jet Out
☐ Call Out

Description: _____

C-133#

RRC or API # _____

VOLUME OF MATERIAL ☐ BBLs. _____

☒ YARD *20* : ☐ _____

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

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DRIVER: *[Signature]*
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494240**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *8msu, Satellite 13*TRANSPORTER COMPANY: *SPR*TIME *8:16* AM/PMDATE: *1-9-18*VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *Xto*RIG NAME
AND NUMBER *251-7239353***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *OP*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494388**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EmSU Satellite #13*TRANSPORTER COMPANY: *SDR*TIME *7:53* AM/PMDATE: *1-10-19*VEHICLE NO: *36*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content:☐ Call OutDescription: *OO*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494408**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU Sgt #3TRANSPORTER COMPANY: SDRTIME 9:42 AM/PMDATE: 1-10-19 VEHICLE NO: 29GENERATOR COMPANY
MAN'S NAME: Shelby PenningtonCHARGE TO: XTORIG NAME
AND NUMBER 281-723-9353**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| ☐ Production Water | ☐ Drilling Fluids | ☐ Rinsate |
| ☐ Tank Bottoms | ☒ Contaminated Soil | ☐ Jet Out |
| ☐ Solids | ☐ BS&W Content: | ☐ Call Out |

Description: CD

RRC or API #

C-133# LeaVOLUME OF MATERIAL ☐ BBLs. : ☒ YARD 20 : ☐

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

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DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494418**LEASE OPERATOR/SHIPPER/COMPANY: YTOLEASE NAME: EMSU Sat # 13TRANSPORTER COMPANY: SDRTIME 10:21 AM/PMDATE: 1-10-19 VEHICLE NO: 30GENERATOR COMPANY
MAN'S NAME: Shelby PenningtonCHARGE TO: YTORIG NAME
AND NUMBER 281-723-9353**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: 90

RRC or API #

C-133# 600VOLUME OF MATERIAL ☐ BBLs. _____ :☒ YARD 20 :☐ _____

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

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DRIVER: Ruben J. Lopez

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **494417**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSV sat #3**TRANSPORTER COMPANY: **SDR**DATE: **1-10-19** VEHICLE NO: **36**TIME **10:18** AM/PMGENERATOR COMPANY
MAN'S NAME: **Shelby Pennington**RIG NAME
AND NUMBER: **281-723-9353**CHARGE TO: **XTO****TYPE OF MATERIAL**☐ Production Water☐ Tank Bottoms☐ Solids☐ Drilling Fluids☒ Contaminated Soil☐ BS&W Content: **00**☐ Rinsate☐ Jet Out☐ Call Out

Description: _____

C-133# **UPA**

RRC or API # _____

VOLUME OF MATERIAL ☐ BBLs. _____☒ YARD **20** : _____

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494386**LEASE OPERATOR/SHIPPER/COMPANY: *XTO*LEASE NAME: *Ensu Satellite #13*TRANSPORTER COMPANY: *SDR*TIME *7:40* AM/PMDATE: *1-9-19* VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Shelby Hemminger*CHARGE TO: *XTO*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *Op*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **494390**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EMSL Satellite #13*TIME *8:17* AM/PMTRANSPORTER COMPANY: *SDR*DATE: *1-10-19*VEHICLE NO: *30*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *00*

C-133#

RRC or API #

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD *20*

:

☐

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

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

DRIVER: *Ruben*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Sal*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **494391**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *EMSU Satellite #13*TRANSPORTER COMPANY: *SDR*TIME *8:18* AM/PMDATE: *1-10-19*VEHICLE NO: *20*GENERATOR COMPANY
MAN'S NAME: *Shelby Plummer*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____: ☐ YARD *20* _____: ☐ _____

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

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DRIVER: *Daniel Thompson*
(SIGNATURE)FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 494321**LEASE OPERATOR/SHIPPER/COMPANY:** *X to***LEASE NAME:** *Em 5th satellite 13***TRANSPORTER COMPANY:** *SDR***TIME** *2:53* AM/PM**DATE:** *1-9-19***VEHICLE NO:** *20***GENERATOR COMPANY
MAN'S NAME:** *Shelby Remig***CHARGE TO:** *X to***RIG NAME
AND NUMBER****TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *CO***RRC or API #****C-133#****VOLUME OF MATERIAL**☐ BBLs.

:

☐ YARD *20*

:

☐

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

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

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DRIVER: *Daniel Thurston*

(SIGNATURE)

FACILITY REPRESENTATIVE: *E. Shultz*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 494316**LEASE OPERATOR/SHIPPER/COMPANY:** *Xto***LEASE NAME:** *EMSU Satellite B***TRANSPORTER COMPANY:** *SPR / m. mala***DATE:** *1-9-19***VEHICLE NO:** *30***GENERATOR COMPANY
MAN'S NAME:** *Shelby Poina***TIME** *2:21* **AM/PM****CHARGE TO:** *Xto***RIG NAME
AND NUMBER** *2B1-723-935***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call OutDescription: *OO***RRC or API #****C-133#****VOLUME OF MATERIAL**☐ BBLs. _____ :☐ YARD *20* _____ :☐ _____

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

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DRIVER: *Monterat Rd 3*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

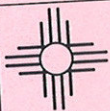
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 494315

LEASE OPERATOR/SHIPPER/COMPANY: *Xto*

LEASE NAME: *Em su Satellite B*

TRANSPORTER COMPANY: *SDR / M. Mato*

DATE: *1-9-19*

VEHICLE NO: *12*

GENERATOR COMPANY
MAN'S NAME: *Shelby Poming*

RIG NAME
AND NUMBER: *281-723-9353*

CHARGE TO: *Xto*

TYPE OF MATERIAL

☐ Production Water

☐ Tank Bottoms

☐ Solids

☐ Drilling Fluids

☐ Contaminated Soil

☐ BS&W Content:

☐ Rinsate

☐ Jet Out

☐ Call Out

Description: *00*

C-133#

RRC or API #

VOLUME OF MATERIAL ☐ BBLs.

☐ YARD *20*

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

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DRIVER: *Adrian*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Shelby*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 494308**LEASE OPERATOR/SHIPPER/COMPANY:** XTO**LEASE NAME:** EMSU Satellite**TRANSPORTER COMPANY:** SDR**TIME** 1:39 AM/PM**DATE:** 1-9-19 **VEHICLE NO:** 29**GENERATOR COMPANY
MAN'S NAME:** Spelby Permittor**CHARGE TO:** XTO**RIG NAME
AND NUMBER** 281-723-9353**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☒ Contaminated Soil☐ Jet Out☐ Solids☐ BS&W Content:☐ Call Out**Description:** OO**RRC or API #****C-133#****VOLUME OF MATERIAL** ☐ BBLs. : ☒ YARD 20 : ☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494320**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *Emsu Satellite 13*TRANSPORTER COMPANY: *SDE*TIME *2:50* AM/PMDATE: *1-9-19*VEHICLE NO: *36*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *Xto*RIG NAME
AND NUMBER**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Rinsate☐ Tank Bottoms☐ Contaminated Soil☐ Jet Out☐ Solids☒ BS&W Content: *CO*☐ Call Out

Description: _____

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD *20* : ☐ _____

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509062

LEASE OPERATOR/SHIPPER/COMPANY: <u>XLO</u>	DATE: <u>7-7-19</u>
LEASE NAME: <u>EMSD Cat # 12</u>	TIME: <u>3:18</u> AM/PM <u>()</u>
RIG NAME & NUMBER: <u>SDR</u>	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>SDR</u>	PHONE: <u>475-234-2034</u>
GENERATOR COMPANY MAN'S NAME: <u>Cott Kaufman</u>	PHONE: <u>475-234-2034</u>

CHARGE TO: XLO

TYPE OF MATERIAL

☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
☐ Solids	☒ Contaminated Soil	☐ Jet Out	

Description: CO**VOLUME OF MATERIAL**

☐ BBLs. _____:	☒ YARD <u>24</u> :	☐ _____:
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RRC or API #

C-133# 100**STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: OK T2

(SIGNATURE)

FACILITY REPRESENTATIVE: K

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

IFEST

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

TICKET No. 509064

OPERATOR/SHIPPER/COMPANY: XHODATE: 5-7-19LEASE NAME: EMISO Sot H 13TIME: 3:36 AM/PM

RIG NAME & NUMBER:

VEHICLE NO: 31TRANSPORTER COMPANY: BDV

PHONE:

GENERATOR COMPANY MAN'S NAME: Scott KaufmanPHONE: (920) 334-2059CHARGE TO: XHOscott.kaufman@xhoenergy.com

TYPE OF MATERIAL

☐ Tank Bottoms☐ Drilling Fluids☐ Rinsate☐ BS&W Content:☐ Solids☒ Contaminated Soil☐ Jet OutDescription: oil center

VOLUME OF MATERIAL

☐ BBLs☒ YARD 20☐ _____

RRC or API #

C-133# C49

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: Ruben H

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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MANIFEST

SUNDANCE SERVICES, Inc.P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842TICKET No. **509063****MANIFEST**

LEASE OPERATOR/SHIPPER/COMPANY: XHO		DATE: 5-7-19
LEASE NAME: EMSV S91 #13		TIME: 2:30 AM/PM
RIG NAME & NUMBER:		VEHICLE NO: 21
TRANSPORTER COMPANY: SIX		PHONE:
GENERATOR COMPANY MAN'S NAME: Scott Krollman		PHONE: 1337817-2031
CHARGE TO: XHO		

TYPE OF MATERIAL	☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
	☐ Solids	☒ Contaminated Soil	☐ Jet Out	
Description: (C)				

VOLUME OF MATERIAL	☐ BBLS. _____	☒ YARD 20	☐ _____
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RRC or API #

C-133# **649****STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

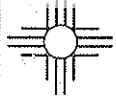
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509060

LEASE OPERATOR/SHIPPER/COMPANY: <u>XHO</u>	DATE: <u>5-7-19</u>
LEASE NAME: <u>Emisu Satellite 12</u>	TIME: <u>2:15</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>22</u>
TRANSPORTER COMPANY: <u>Spr</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Small Boulton</u>	PHONE: <u>3362</u>
CHARGE TO: <u>XHO</u>	

TYPE OF MATERIAL

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: CO**VOLUME OF MATERIAL**

☐ BBLS. _____ : ☒ YARD 12 : ☐ _____

RRC or API #

C-133# 669**STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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SUNDANCE SERVICES, Inc.

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

TICKET No. 509421

LEASE OPERATOR/SHIPPER/COMPANY: <u>XHO</u>	DATE: <u>8/9/19</u>
LEASE NAME: <u>CINISU Soil #13-</u>	TIME: <u>7:49</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>31</u>
TRANSPORTER COMPANY: <u>TDK</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Kaufman</u>	PHONE: <u>432 234-6571</u>
CHARGE TO: <u>XHO</u>	

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: _____

VOLUME OF MATERIAL ☐ BBLs. _____: ☒ YARD 75: ☐ _____

RRC or API # C-133# 1400

STICKERS, CODES, NUMBERS, ETC.

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

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

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

DRIVER: Ruban H
(SIGNATURE)

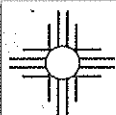
FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

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

TICKET No. 509439

LEASE OPERATOR/SHIPPER/COMPANY: <u>XTO</u>	DATE: <u>5-9-19</u>
LEASE NAME: <u>CDISU SUT # 12</u>	TIME: <u>4:21</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>SDR</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Kaufman</u>	PHONE:
CHARGE TO: <u>XTO</u>	

TYPE OF MATERIAL	☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
	☐ Solids	☒ Contaminated Soil	☐ Jet Out	
Description: <u>CD</u>				
VOLUME OF MATERIAL	☐ BBLs. _____:	☒ YARD <u>70</u> :	☐ _____	
RRC or API #		C-133# <u>6041</u>		

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: Ruben H

(SIGNATURE)

FACILITY REPRESENTATIVE: B

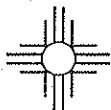
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

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

TICKET No. 509386

LEASE OPERATOR/SHIPPER/COMPANY: XHO

DATE: 5-1-17

LEASE NAME: CHICO MTH #13

TIME: 10 AM/PM

RIG NAME & NUMBER:

VEHICLE NO: 21

TRANSPORTER COMPANY: SDV

PHONE:

GENERATOR COMPANY MAN'S NAME: John Rodriguez

PHONE: 705-235-1234

CHARGE TO: XHO

TYPE OF MATERIAL

☐ Tank Bottoms

☐ Drilling Fluids

☐ Rinsate

☐ BS&W Content:

☐ Solids

☒ Contaminated Soil

☐ Jet Out

Description: 60

VOLUME OF MATERIAL

☐ BBLs. _____

☒ YARD 20

☐ _____

RRC or API #

C-133# 600

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: Ruben JH

(SIGNATURE)

FACILITY REPRESENTATIVE: K2

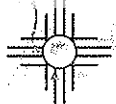
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**

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

TICKET No. 509343

LEASE OPERATOR/SHIPPER/COMPANY: <u>XHO</u>	DATE: <u>9-17</u>
LEASE NAME: <u>Eniso Sat #12</u>	TIME: <u>11:17</u> (AM/PM)
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>SDR</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Walt K. Hume</u>	PHONE: <u>505-244-2276</u>

CHARGE TO: <u>XHO</u>	
TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content: ☐ Solids ☐ Contaminated Soil ☐ Jet Out	Description: <u>CL</u>
VOLUME OF MATERIAL	☐ BBLs. _____ : ☒ YARD <u>20</u> : ☐ _____
RRC or API #	C-133# <u>601</u>

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: Ruben H
 (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
 (SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509381

LEASE OPERATOR/SHIPPER/COMPANY: <u>X10</u>	DATE: <u>9-17</u>
LEASE NAME: <u>ENISO 101 # 13</u>	TIME: <u>10:19</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>31</u>
TRANSPORTER COMPANY: <u>116</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>116</u>	PHONE: <u>116 394 059</u>

CHARGE TO: 110**TYPE OF MATERIAL**

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☐ Contaminated Soil ☐ Jet Out

Description: _____

VOLUME OF MATERIAL

☐ BBLS. _____: ☒ YARD 20: ☐ _____

RRC or API #

C-133# 666**STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 396-7842

TICKET No. 509344

LEASE OPERATOR/SHIPPER/COMPANY: <u>X10</u>	DATE: <u>9-19</u>
LEASE NAME: <u>UNION PACIFIC</u>	TIME: <u>1:19</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>SW</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>411 P. M. M. M. M.</u>	PHONE: <u>602 269 1000</u>

CHARGE TO: W/O

TYPE OF MATERIAL

☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
☐ Solids	☐ Contaminated Soil	☐ Jet Out	

Description: CR

VOLUME OF MATERIAL

☐ BBLS, _____:	☒ YARD <u>20</u> :	☐ _____:
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RRC or API #

C-133# 100**STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: OK 12
(SIGNATURE)

FACILITY REPRESENTATIVE: K
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509418

LEASE OPERATOR/SHIPPER/COMPANY: <u>KIC</u>	DATE: <u>9/19</u>
LEASE NAME: <u>UNION PACIFIC</u>	TIME: <u>7:31</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>KIC</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Bill K. Langan</u>	PHONE: <u>409-435</u>
CHARGE TO: <u>210</u>	

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☐ Contaminated Soil ☐ Jet Out
Description: oil

VOLUME OF MATERIAL ☐ BBLs. _____: ☐ YARD 20: ☐ _____

RRC or API #

C-133#

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: [Signature]
(SIGNATURE)FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509436

LEASE OPERATOR/SHIPPER/COMPANY: <u>YLO</u>	DATE: <u>9-9-19</u>
LEASE NAME: <u>CMISU Sub # 13</u>	TIME: <u>4:07 AM/PM</u>
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>SDR</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Kneeliman</u>	PHONE: <u>(505) 394-2056</u>

CHARGE TO: <u>YLO</u>

TYPE OF MATERIAL	☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
	☐ Solids	☒ Contaminated Soil	☐ Jet Out	
Description: <u>AD</u>				

VOLUME OF MATERIAL	☐ BBLs. _____:	☐ YARD _____:	☐ _____:
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RRC or API #

C-133# 400**STICKERS, CODES, NUMBERS, ETC.**

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509225

LEASE OPERATOR/SHIPPER/COMPANY: <u>X10</u>	DATE: <u>5-8-19</u>
LEASE NAME: <u>timbu sat #12</u>	TIME: <u>1:55</u> AM/PM <u>(M)</u>
RIG NAME & NUMBER:	VEHICLE NO: <u>21</u>
TRANSPORTER COMPANY: <u>XXX</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>brock reidman</u>	PHONE: <u>435.229.2036</u>

CHARGE TO: X10**TYPE OF MATERIAL**

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: _____

VOLUME OF MATERIAL

☐ BBLS. _____: ☒ YARD 70: ☐ _____

RRC or API #

C-133# (see)**STICKERS, CODES, NUMBERS, ETC.**

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509169

LEASE OPERATOR/SHIPPER/COMPANY: 710	DATE: 5-8-19
LEASE NAME: C-133 Soil #13	TIME: 10:48 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 21
TRANSPORTER COMPANY: SDR	PHONE:
GENERATOR COMPANY MAN'S NAME: 8011 Keweenaw	PHONE: (402) 239-2034

CHARGE TO: 710

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out
 Description: C-133

VOLUME OF MATERIAL ☐ BBLs. _____: ☒ YARD 70 _____: ☐ _____

RRC or API # C-133# 1-29

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: [Signature]
 (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
 (SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509258

LEASE OPERATOR/SHIPPER/COMPANY: KFO	DATE: 8-19
LEASE NAME: HISSON 4112	TIME: 4:26 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 21
TRANSPORTER COMPANY: SDR	PHONE:
GENERATOR COMPANY MAN'S NAME: J. K. Thomas	PHONE: 409-224-2011

CHARGE TO:

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: 111

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD 70 : ☐

RRC or API #

C-133# 1401

STICKERS, CODES, NUMBERS, ETC.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509259

LEASE OPERATOR/SHIPPER/COMPANY: <u>XIO</u>	DATE: <u>8-19</u>
LEASE NAME: <u>...</u>	TIME: <u>7:27 AM/PM</u>
RIG NAME & NUMBER:	VEHICLE NO: <u>1</u>
TRANSPORTER COMPANY: <u>...</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>...</u>	PHONE: <u>(720) 731-5071</u>

CHARGE TO:

TYPE OF MATERIAL

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☐ Contaminated Soil ☐ Jet Out

Description: _____

VOLUME OF MATERIAL

☐ BBLs. _____ : ☒ YARD ... : ☐ _____

RRC or API #

C-133#

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: Ruben

(SIGNATURE)

FACILITY REPRESENTATIVE: Bj

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509227

0705

LEASE OPERATOR/SHIPPER/COMPANY: X10	DATE: 5-8-17
LEASE NAME: EUNICE SOIL H 13	TIME: 1:58 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 31
TRANSPORTER COMPANY: SDI	PHONE:
GENERATOR COMPANY MAN'S NAME: Scott Knutson	PHONE: 402 234 3070
CHARGE TO: X10	

TYPE OF MATERIAL	☐ Tank Bottoms	☐ Drilling Fluids	☐ Rinsate	☐ BS&W Content:
	☐ Solids	☒ Contaminated Soil	☐ Jet Out	
Description: (1)				
VOLUME OF MATERIAL	☐ BBLs. _____:	☒ YARD 20 _____:	☐ _____:	
RRC or API #	C-133# 6001			

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: Ruben
(SIGNATURE)FACILITY REPRESENTATIVE: K

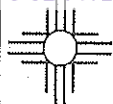
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509170

LEASE OPERATOR/SHIPPER/COMPANY: <u>X10</u>	DATE: <u>5-8-19</u>
LEASE NAME: <u>CHISO Sat # 12</u>	TIME: <u>1:49</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>31</u>
TRANSPORTER COMPANY: <u>SOR</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Kowlan</u>	PHONE: <u>930-234-3051</u>

CHARGE TO: X10

TYPE OF MATERIAL

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: 40

VOLUME OF MATERIAL

☐ BBLs. _____ : ☒ YARD 30 : ☐ _____

RRC or API #

C-133# 149

STICKERS, CODES, NUMBERS, ETC.

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

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DRIVER: Ruben

(SIGNATURE)

FACILITY REPRESENTATIVE: K

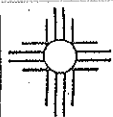
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509257

LEASE OPERATOR/SHIPPER/COMPANY: <u>XHO</u>		DATE: <u>9.19</u>
LEASE NAME: <u>611500 2017 #12</u>		TIME: <u>11:29</u> AM/PM
RIG NAME & NUMBER:		VEHICLE NO: <u>20</u>
TRANSPORTER COMPANY: <u>SDR</u>		PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Kaufman</u>		PHONE: <u>472.729.2511</u>

CHARGE TO: XHO**TYPE OF MATERIAL**

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☐ Contaminated Soil ☐ Jet Out

Description: Oil**VOLUME OF MATERIAL**

☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

RRC or API #

C-133# 601**STICKERS, CODES, NUMBERS, ETC.**

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

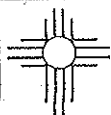
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509226

LEASE OPERATOR/SHIPPER/COMPANY: <u>XTO</u>		DATE: <u>5-8-19</u>
LEASE NAME: <u>CDMSU SOUT #13</u>		TIME: <u>1:57 AM/PM</u>
RIG NAME & NUMBER:		VEHICLE NO: <u>30</u>
TRANSPORTER COMPANY: <u>SDR</u>		PHONE:
GENERATOR COMPANY MAN'S NAME: <u>SCOTT KUMMEL</u>		PHONE:
CHARGE TO: <u>✓ 10</u>		
TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content: ☐ Solids ☒ Contaminated Soil ☐ Jet Out		
Description: <u>oil</u>		
VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD <u>20</u> : ☐ _____		
RRC or API #		C-133# <u>600</u>

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

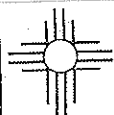
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 509168

0677

LEASE OPERATOR/SHIPPER/COMPANY: <u>XIO</u>	DATE: <u>5-8-19</u>
LEASE NAME: <u>ENZO SUT #12</u>	TIME: <u>10:47</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>30</u>
TRANSPORTER COMPANY: <u>SPD</u>	PHONE:
GENERATOR COMPANY MAN'S NAME: <u>Scott Paulman</u>	PHONE: <u>630-234-3059</u>

CHARGE TO: XIO**TYPE OF MATERIAL**☐ Tank Bottoms☐ Drilling Fluids☐ Rinsate☐ BS&W Content:☐ Solids☒ Contaminated Soil☐ Jet OutDescription: (1)**VOLUME OF MATERIAL**☐ BBLs. _____☒ YARD 20☐ _____

RRC or API #

C-133#

120.**STICKERS, CODES, NUMBERS, ETC.**

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

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

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

COMMENTS

Action 199274

COMMENTS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 199274
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

COMMENTS

Created By	Comment	Comment Date
amaxwell	Historical document upload.	3/21/2023

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

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

CONDITIONS

Action 199274

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 199274
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Soil remediation portion has been approved for closure as installation of a 20' mil liner and confirmation samples collected every 50' have been completed and previously approved by the OCD. Additionally, groundwater has been confirmed to be impacted by the pipeline release as demonstrated by lab analyses from TMW1 and TMW2. As a result of this, please proceed to furnish a stage 1 abatement plan as XTO Energy has partially proposed in section 4.2 Monitoring Wells. This proposal is required to follow the provisions under section 19.15.30.13 NMAC ABATEMENT PLAN PROPOSAL. XTO Energy has sixty (60) days from this approval date (10.16.2024) to submit a stage 1 abatement plan to fully characterize the release and impact to groundwater for this incident. Lastly, please upload the stage 1 abatement plan for both incident numbers, [nOY1727250040] [nCH1903648978]	10/16/2024