

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)

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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

| | |
|--|----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> 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? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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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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: [REDACTED]

REVIEWED**By Mike Buchanan at 11:23 am, Oct 01, 2024**

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 (10.01.2024) 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]

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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: _____

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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**

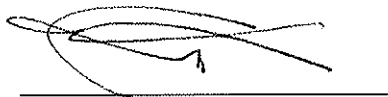
Latitude: 32° 34' 32.79"
Longitude: 103° 19' 19.06"

LAI Project No. 17-0193-01

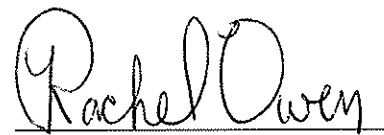
July 1, 2019

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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| | |
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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 |

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 |
| | | South (side) | 6 | 11/30/2018 | Excavated | -- | -- | 30.0 | 754 | 140 | 924 | 111 |
| | S-3 | 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 |
| | | 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 |
| | | South (side) | 2 | 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

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| 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 |

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

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| 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 | |
| | 12 | Bottom | 03/04/2019 | Excavated | <0.0241 | 4.597 | 1,400 | 5,130 | 902 | 7,432 | 1,750 | |
| S-11 | 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

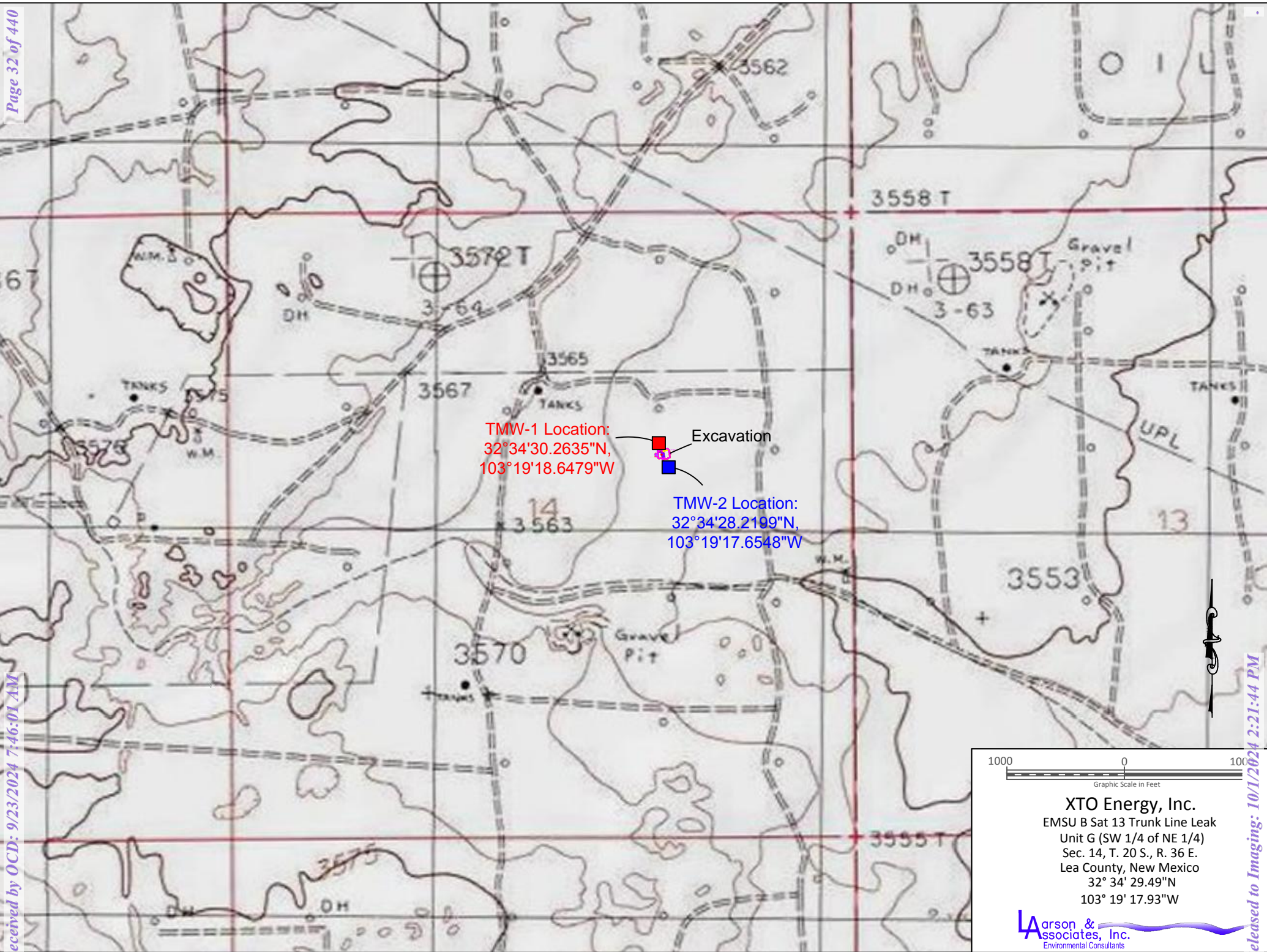
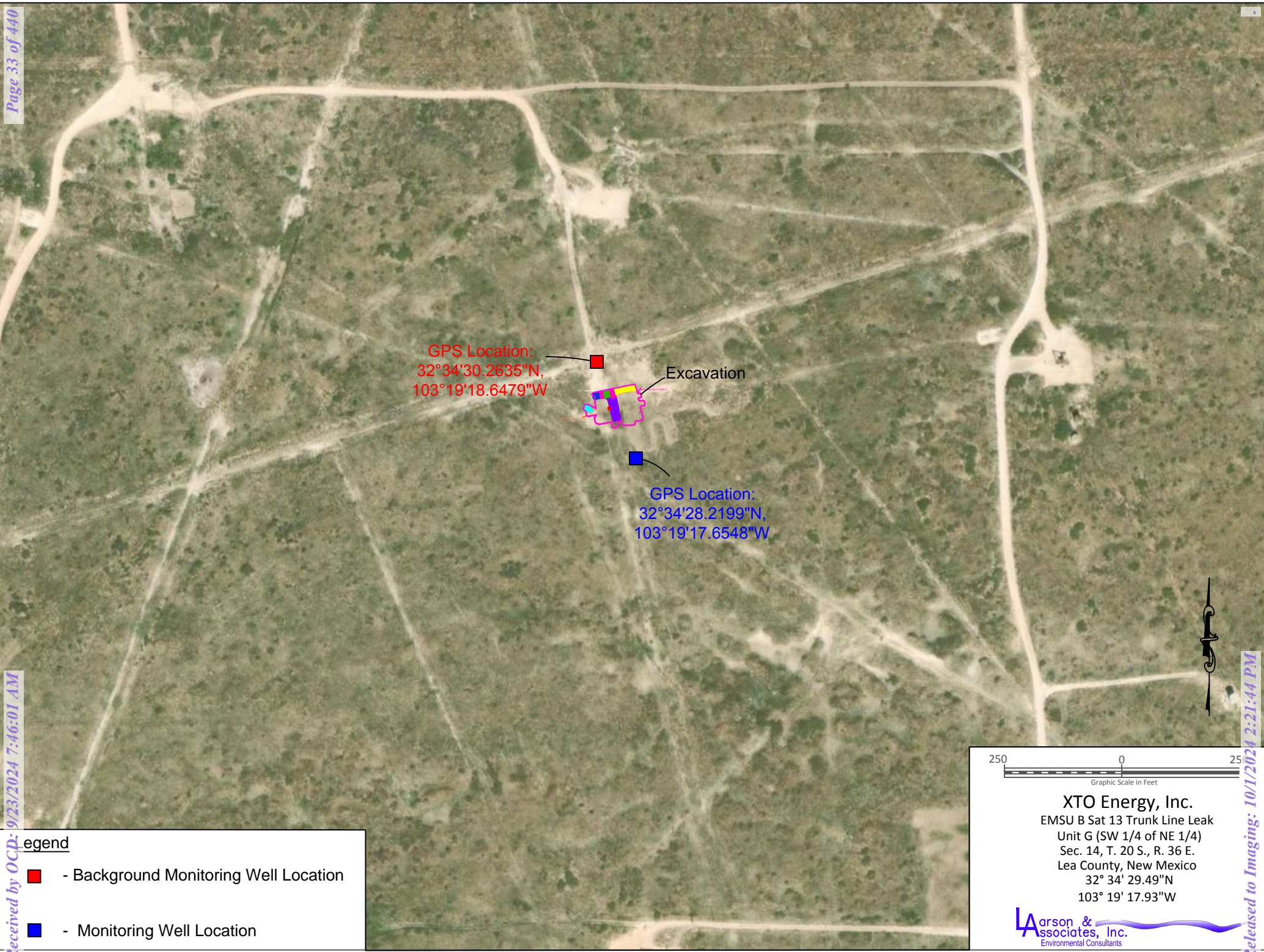


Figure 1 - Topographic Map Showing Monitoring Well Locations



Legend

- - Background Monitoring Well Location
- - Monitoring Well Location

250 0 250
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

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')

600060

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

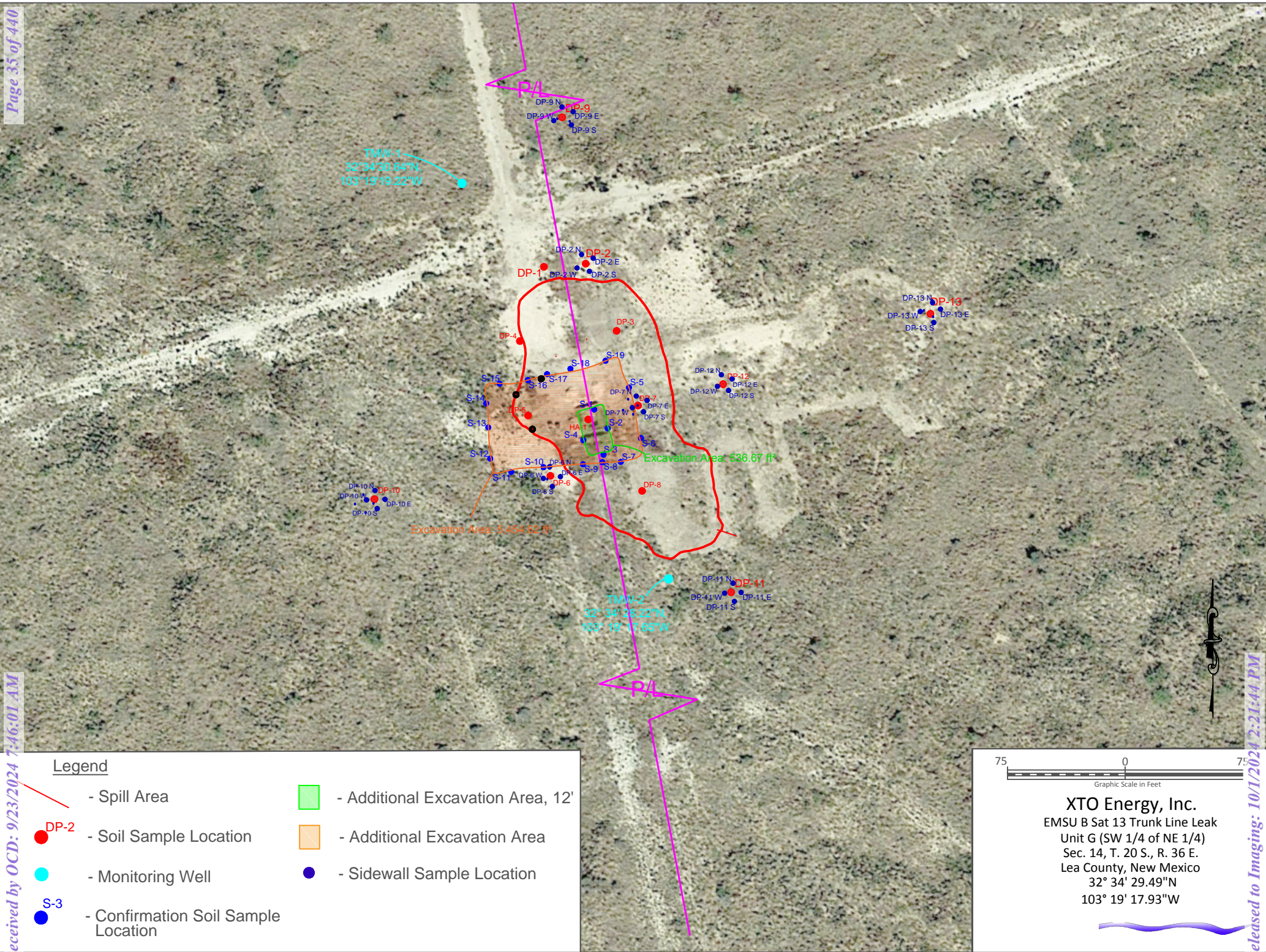
103° 19' 17.93"W

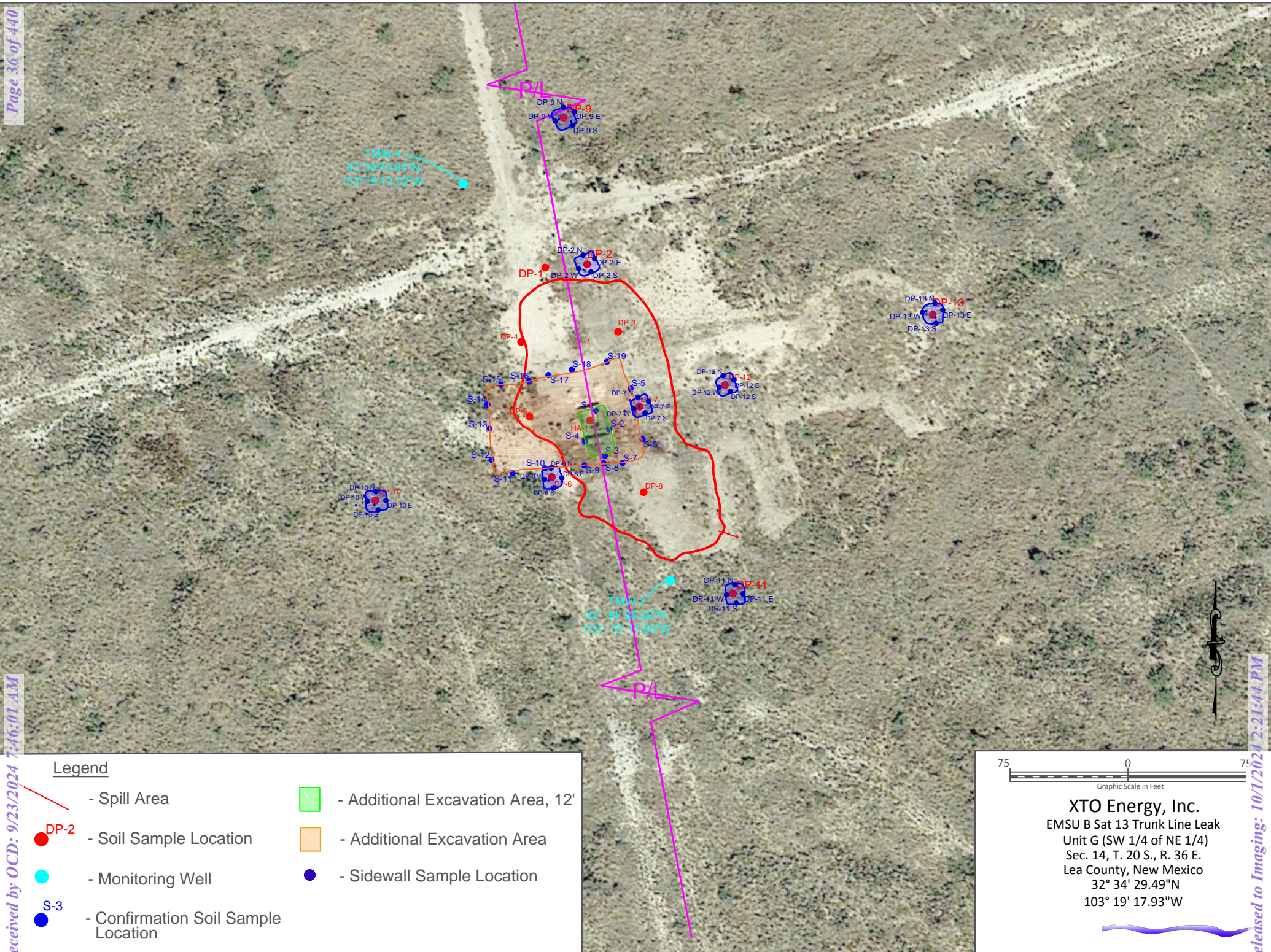
Larson & Associates, Inc.

Environmental Consultants

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

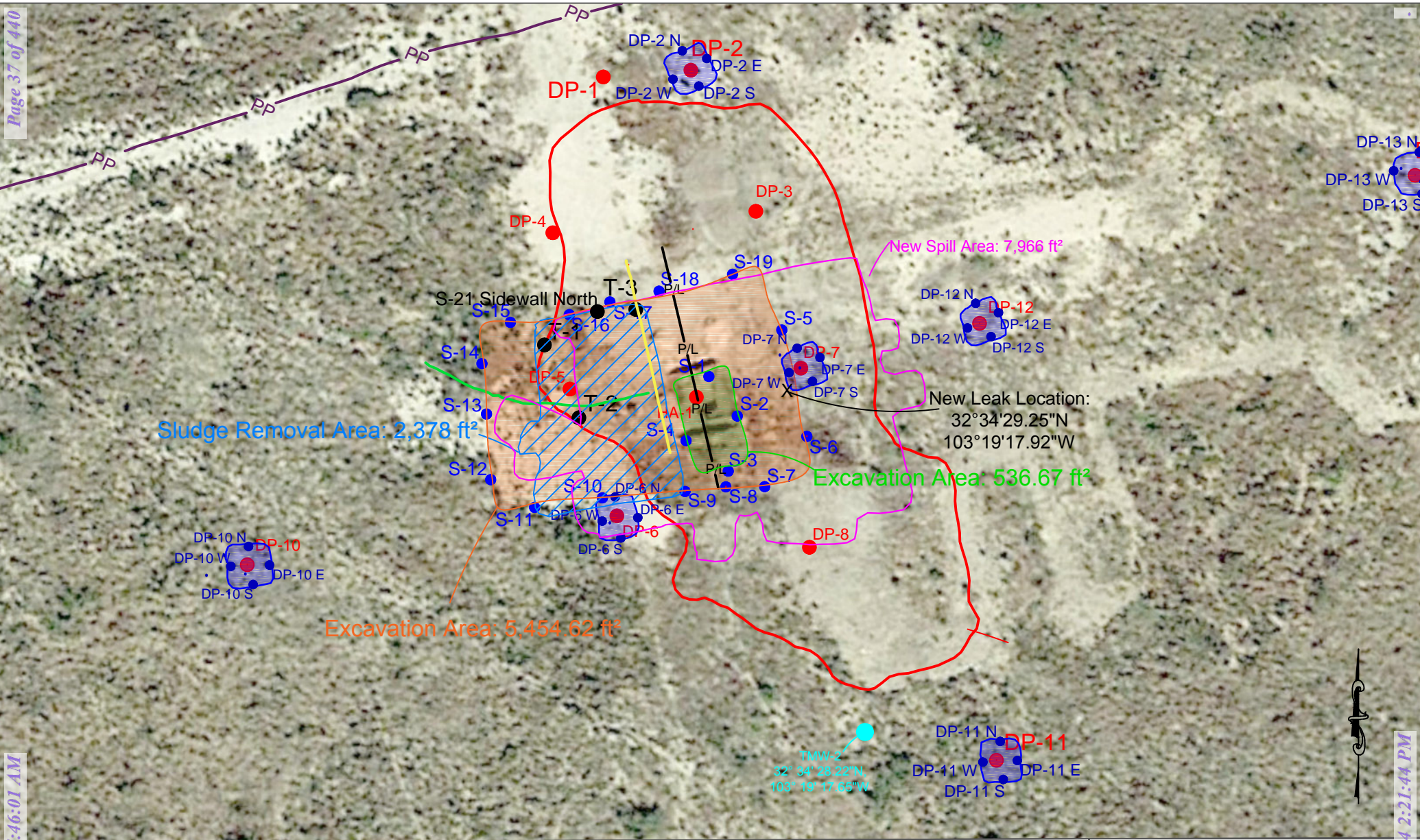
Released to Imaging: 10/1/2024 2:21:44 PM





75 0 75
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



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 |



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

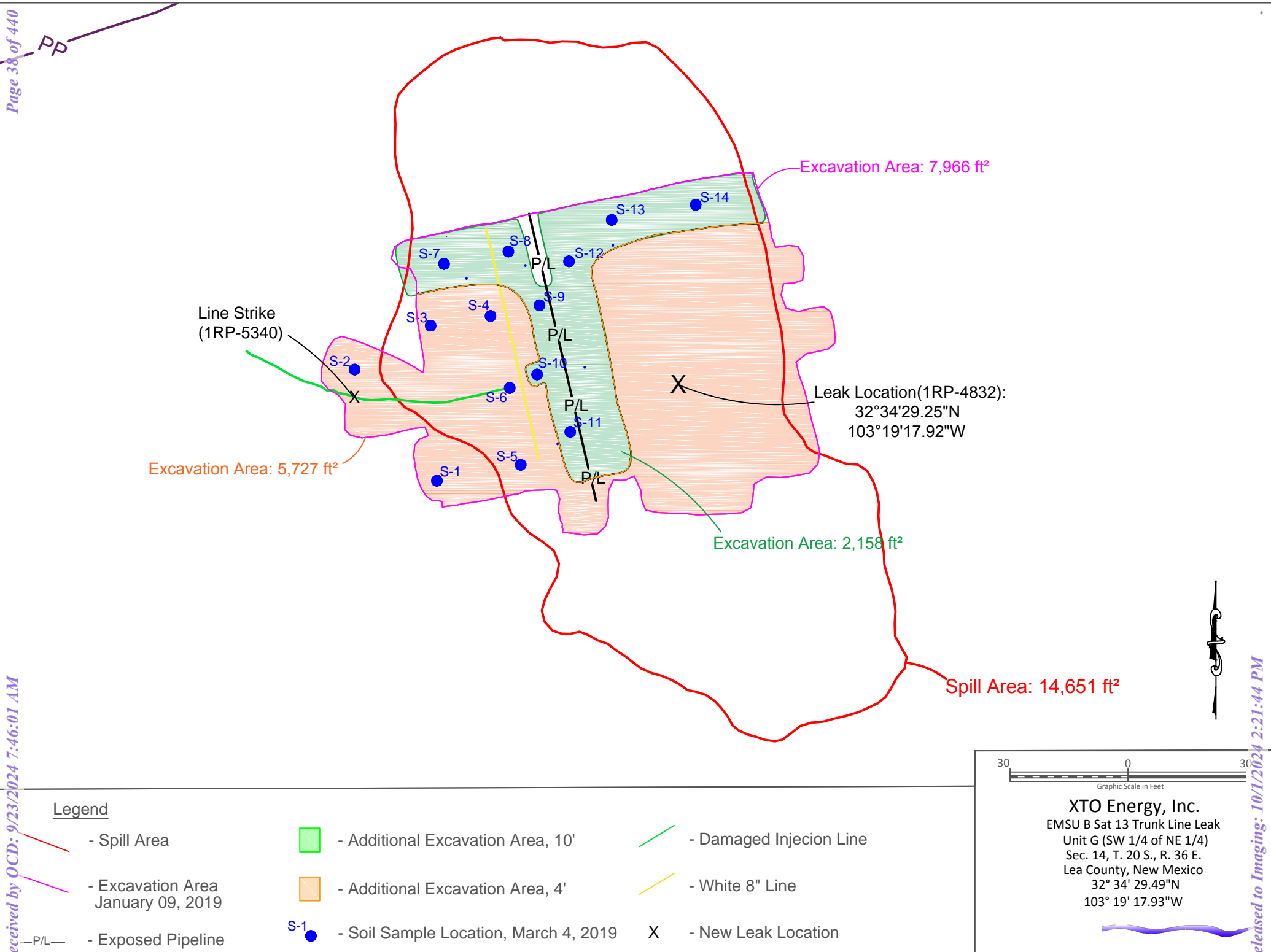














Figure 6 - Site Map Showing Excavation Areas and Soil Sample Locations



Spill Area: 14,651 ft²

-  - 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
-  - Leak Location

30 0 3

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 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Olivia Yu | |
| By Whom? Shannon Walker | Date and Hour 09/20/2017 | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

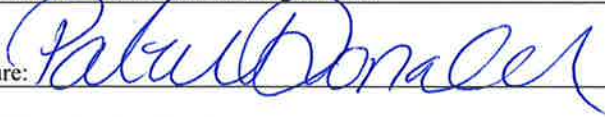

Describe Cause of Problem and Remedial Action Taken.*

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 <input checked="" type="checkbox"/> |
| 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)

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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

| | |
|--|---------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> 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 e: _____ | |

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



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"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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

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

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.

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

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

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

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.

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

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

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.

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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 E (2')

8K19005-10 (Soil)

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

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.

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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 S (2')

8K19005-11 (Soil)

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

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.
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 W (2')
8K19005-12 (Soil)

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

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.

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

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

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.

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

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

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.

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

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

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.

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

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

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.
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 N (2')
8K19005-17 (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 | 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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 | |

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

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

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 | |

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

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

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. | 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 N (2')

8K19005-21 (Soil)

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

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

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

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
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| P.O. Box 50685 | Project Number: 17-0193-01 | |
| Midland TX, 79710 | Project Manager: Mark Larson | |

DP- 6 N (2')

8K19005-25 (Soil)

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

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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|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
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| 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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.
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 W (2')
8K19005-28 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.
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 E (2')
8K19005-30 (Soil)

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

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. | 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 S (2')

8K19005-31 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 | | | |

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 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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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 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

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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: 11/19/13 PAGE 1
PO#: LAB WORK ORDER#: 81900
PROJECT LOCATION OR NAME: 710 ELM St 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CB

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NO 413

CHAIN-OF-CUSTO

| TRRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | S=SOIL W=WATER A=AIR | | P=PAINT SL=SLUDGE OT=OTHER | |
|---|------|----------------------------|--------|----------------------------------|--|
| TIME ZONE: Time zone/State: | | | | | |
| Field Sample I.D. MST | | | | | |
| Lab # | Date | Time | Matrix | # of Containers | PRESERVATION |
| | | | | | HCl HNO ₃ H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE UNPRESERVED |
| DR-ZN(a) | D1 | 11/16/18 | 10:40 | 5 | X |
| DR-ZE(a) | D2 | | 10:41 | | X |
| DR-ZS(a) | D5 | | 10:44 | | X |
| DR-ZW(a) | D4 | | 10:45 | | X |
| DR-QN(a) | S | | 10:48 | | X |
| DR-QE(a) | V | | 10:50 | | X |
| DR-QS(a) | 7 | | 10:51 | | X |
| DR-QM(a) | 8 | | 10:53 | | X |
| DR-13N(a) | 9 | | 10:58 | | X |
| DR-13E(a) | 10 | | 11:00 | | X |
| DR-13S(a) | 11 | | 11:01 | | X |
| DR-13W(a) | 12 | | 11:02 | | X |
| DR-12N(a) | 13 | | 11:07 | | X |
| DR-12E(a) | 14 | | 11:09 | | X |
| DR-12S(a) | 15 | | 11:10 | | X |
| TOTAL | | | | | 15 |

| | | | | | |
|--|--|-----------------------------|--|--|--|
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | | DATE/TIME 11/19/18 | | RECEIVED BY: (Signature) <i>[Signature]</i> | |
| RELINQUISHED BY: (Signature) | | DATE/TIME | | RECEIVED BY: (Signature) | |
| RELINQUISHED BY: (Signature) | | DATE/TIME | | RECEIVED BY: (Signature) | |
| LABORATORY: PREL | | DATE/TIME 11/19/18 11:40 | | RECEIVED BY: (Signature) <i>[Signature]</i> | |

| | | | |
|--|--|--|--|
| TURN AROUND TIME NORMAL <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | LABORATORY USE ONLY: 3.7 THERM#: _____ CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED <input type="checkbox"/> CARRIER BILL # _____ <input type="checkbox"/> HAND DELIVERED | |
|--|--|--|--|

| | | | |
|---|--|----------------------------|--|
| ANALYSES BTEX MTBE <input type="checkbox"/> TPH 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input type="checkbox"/> AORO DIESEL - MOD 8015 <input type="checkbox"/> OIL - MOD 8015 <input type="checkbox"/> VOC 8260 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> 8082 PCBS <input type="checkbox"/> TLCP - METALS (RORA) <input type="checkbox"/> Semi-VOC <input type="checkbox"/> TOTAL PEST <input type="checkbox"/> HERB <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD TOTAL (RORA) <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TLCP <input type="checkbox"/> RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> pH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PECHLORATE <input type="checkbox"/> CHLORIDES ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> | | FIELD NOTES 1300 | |
|---|--|----------------------------|--|

Page 45 of 46

Data Reported to:

| | | |
|---|----------------------------|----------------------------------|
| TRRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | S=SOIL W=WATER A=AIR | P=PAINT SL=SLUDGE OT=OTHER |
| TIME ZONE: Time zone/State: <i>MDT</i> | | |

| Field Sample I.D. | Lab # | Date | Time |
|-------------------|-------|------|------|
| M51 | | | |

| # of Containers | PRESERVATION |
|---|--------------|
| HCl | |
| HNO ₃ | |
| H ₂ SO ₄ □ NaOH □ | |
| ICE | |
| UNPRESSERVED | |

| ANALYSES | |
|--|--|
| BTEX | MTBE <input type="checkbox"/> |
| TPH | 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> |
| GASOLINE MOD 8015 <input checked="" type="checkbox"/> MOD 8016 <input checked="" type="checkbox"/> | |
| DIESEL - MOD 8015 <input type="checkbox"/> | |
| OIL - MOD 8015 <input type="checkbox"/> | |
| VOC 8260 <input type="checkbox"/> | |
| SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> | |
| 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> | |
| 8082 PCBS <input type="checkbox"/> | |
| TBLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/> | |
| TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/> | |
| TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> | |
| LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/> | |
| RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> | |
| TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> | |
| pH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> | |
| EXPLOSIVES <input type="checkbox"/> PECHLORATE <input type="checkbox"/> | |
| CHLORIDES <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> | |
| M300 | |
| FIELD NO. | |

FIELD NOTES

| DR-12 W (2') | 14 | 11/6/18 | 11/12 | 5 | X | X | X | X | X |
|--------------|---|---------|-------|---|----|----|----|----|----|
| DR-11 N (2') | 14 <td></td> <td>11/18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/18 | | | | | | |
| DR-11 E (2') | 18 <td></td> <td>11/20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/20 | | | | | | |
| DR-11 S (2') | 19 <td></td> <td>11/28</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/28 | | | | | | |
| DR-11 W (2') | 20 <td></td> <td>11/23</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/23 | | | | | | |
| DR-7 N (2') | 21 <td></td> <td>11/31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/31 | | | | | | |
| DR-7 E (2') | 22 <td></td> <td>11/53</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/53 | | | | | | |
| DR-7 S (2') | 23 <td></td> <td>11/54</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/54 | | | | | | |
| DR-7 W (2') | 24 <td></td> <td>11/56</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 11/56 | | | | | | |
| DR-6 N (2') | 25 <td></td> <td>12/57</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 12/57 | | | | | | |
| DR-6 E (2') | 26 <td></td> <td>13/59</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 13/59 | | | | | | |
| DR-6 S (2') | 27 <td></td> <td>14/00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 14/00 | | | | | | |
| DR-6 W (2') | 28 <td></td> <td>14/03</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 14/03 | | | | | | |
| DR-10 N (2') | 29 <td></td> <td>14/05</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 14/05 | | | | | | |
| DR-10 E (2') | 30 <td></td> <td>14/06</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 14/06 | | | | | | |
| TOTAL | | | | | 15 | 15 | 15 | 15 | 15 |

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

| | | |
|------------------------------|-----------|--------------------------|
| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
| <i>[Signature]</i> | 11/9/18 | |

RELINQUISHED BY: (Signature)  DATE/TIME  RECEIVED BY: (Signature) 

LABORATORY: PREL

TURN AROUND TIME

NORMAL ☐

1 DAY ☐

2 DAY ☒ OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP.: 33.7 THERM#: 42

☐ CARRIER BILL # ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ 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#: 8141005
LAB WORK ORDER#: 8141005
PROJECT LOCATION OR NAME: XTO EMSD 30413
LAI PROJECT #: 17-0143-01 COLLECTOR: CB

CHAIN-OF-CUSTODY

Nº 0415

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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 ☒
TBLP - METALS ☒
TCLP - METALS (RCRA) ☒
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.

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 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

S-4 (6')

8L03002-04 (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 | 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.

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 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 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: 12/18 PO#: LAB WORK ORDER#
PROJECT LOCATION OR NAME: X-10 Sat 13
LAI PROJECT #: 17-0193-01 COLLECTOR: CJS

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:

MST

#8103002

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ 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 ☐ D.W. 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')

11/30/14 7:35
7:38
7:41
7:44
7:51
7:54

S

1

1

1

1

1

1

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1

1

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.2 THERM#: 17

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # 123-18 10:14
☒ HAND DELIVERED

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.2 THERM#: 17

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # 123-18 10:14
☒ HAND DELIVERED

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.2 THERM#: 17

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # 123-18 10:14
☒ HAND DELIVERED

LABORATORY: PBEL

12-3-18 10:14

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.2 THERM#: 17

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # 123-18 10:14
☒ 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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

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

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

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. | 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-11 (2')
8L05001-05 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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')
8L05001-07 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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-16 (2')
8L05001-10 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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-19 (2')
8L05001-13 (Soil)

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

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.
P.O. Box 50685
Midland TX, 79710

Project: XTO 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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-BSD1)

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 P8L0517 - * DEFAULT PREP *****

Blank (P8L0517-BLK1)

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

Chloride ND 1.00 mg/kg wet

LCS (P8L0517-BS1)

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

Chloride 415 1.00 mg/kg wet 400 104 80-120

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

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

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

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

Batch P8L0605 - * DEFAULT PREP *****

Blank (P8L0605-BLK1)

Prepared & Analyzed: 12/06/18

% Moisture ND 0.1 %

Duplicate (P8L0605-DUP1)

Source: 8L04021-02

Prepared & Analyzed: 12/06/18

% Moisture 19.0 0.1 % 15.0 23.5 20

Duplicate (P8L0605-DUP2)

Source: 8L04026-01

Prepared & Analyzed: 12/06/18

% Moisture 2.0 0.1 % 2.0 0.00 20

Permian Basin Environmental Lab, L.P.

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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 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

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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.

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

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

№ 0418

| | | | | | |
|--|-------|---|------|----------------------------------|-----------------|
| TRRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | S=SOIL W=WATER A=AIR | | P=PAINT SL=SLUDGE OT=OTHER | |
| TIME ZONE: Time zone/State: M5 | | | | | |
| 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) <i>[Signature]</i> | | DATE/TIME RECEIVED BY: (Signature) 12/5/18 9:00 AM | | | |
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | | DATE/TIME RECEIVED BY: (Signature) 12/5/18 9:00 AM | | | |
| LABORATORY: <i>[Signature]</i> | | TURN AROUND TIME NORMAL <input type="checkbox"/> 1 DAY <input checked="" type="checkbox"/> 2 DAY <input type="checkbox"/> | | | |
| LABORATORY USE ONLY: RECEIVING TEMP: <u>-02</u> THERM: <u>+1</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED CARRIER BILL # <u>13</u> HAND DELIVERED <input checked="" type="checkbox"/> | | ANALYSES BTEX-MTBE <input type="checkbox"/> TRPH 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input checked="" type="checkbox"/> DIESEL - MOD 8015 <input checked="" type="checkbox"/> OIL - MOD 8015 <input checked="" type="checkbox"/> VOC 8260 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLD PAH <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> 8082 PCBS <input type="checkbox"/> TBLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/> RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PENTACHLORATE <input type="checkbox"/> CHLORIDES <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> M300 FIELD NOTES | | | |

**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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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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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')
8L17004-03 (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 | 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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.

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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.

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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 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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 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 | |

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 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.

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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

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.

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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:

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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE UNPRESERVED | |
| ANALYSES BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH 418.1 <input type="checkbox"/> TPH 1005 <input checked="" type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input checked="" type="checkbox"/> DIESEL - MOD 8015 <input checked="" type="checkbox"/> OIL - MOD 8015 <input checked="" type="checkbox"/> VOC 8280 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> TBLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/> TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/> RQ <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PENTACHLORATE <input type="checkbox"/> CHLORIDES <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> 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 | 5 |

| | | | |
|---|---|--|---|
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | TURN AROUND TIME NORMAL <input type="checkbox"/> 1 DAY <input checked="" type="checkbox"/> 2 DAY <input type="checkbox"/> OTHER <input type="checkbox"/> | LABORATORY USE ONLY: RECEIVING TEMP: <u>38.4</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED CARRIER BILL # <u>12/17/18 11:10</u> HAND DELIVERED <input type="checkbox"/> |
|---|---|--|---|



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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AnalyticalQCSummaryReport 1901020 9

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. <input type="checkbox"/> LSO Priority Overnight* By 10:30 a.m. to most cities <input type="checkbox"/> LSO Early Overnight* By 8:30 a.m. select cities <input type="checkbox"/> LSO Economy Next Day* By 3 p.m. to most cities <input type="checkbox"/> LSO 2nd Day* <input type="checkbox"/> 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 _____ <input type="checkbox"/> Check here if LSO Supplies are used with LSO Ground Service. Pick-up Location _____ Date: _____ Time: _____ City Code: _____ | |

ILLEGIBLE HANDWRITING ON AIRBILL MAY DELAY TRANSIT TIMES OR RESULT IN NON-DELIVERY. LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. "Signature Required" service is only available when printing a label online at LSO.com. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. Packaging provided by LSO is for EXPRESS USE ONLY - NEVER TO BE USED FOR LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY. See LSO Service Guide for further details.

CUSTODY SI
DATE 1/3
SIGNATURE -4

QUALITY ENVIRONMENTAL CONTAINERS
800-255-3950 • 304-255-3900
Signature: Olsen

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:

Signature

1/4/2019

Date

Reviewed by

Initials

1/4/2019

Date

Carrier name LoneStar

| | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 2.7 °C |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? _____ | | Checked by _____ |
| Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> 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 | | | | | | | | |
|----------|--------|------|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-----------|-----------|--------|-----------|-------------|---------|----------------|----------------------|-----------|------------|----------|------|
| 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 | | | |
|----------|------|------|-------|---|-----|----|-----|--|--|--|

| | | | | | | | | | | | |
|-----------|------------|--------|-----------|-------------|---------|----------------|----------------------|-----------|------------|----------|------|
| 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 | |
|----------|------|------|-------|---|-----|----|-----|-------|----|--|

| | | | | | | | | | | | |
|-----------|---------------|----|-----------|-------------|------|----------------|----------------------|------|------------|----------|--|
| 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 |
|----------|-------|------|-------|-------|-----|----|-----|--|--|---|

| | | | | | | | | | | | |
|-----------|----------------|--------|-----------|-------------|---------|----------------|----------------------|-----------|------------|----------|------|
| 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 |
|----------|-------|------|-------|-------|-----|----|-----|-------|----|---|

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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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-3
9C05001-03 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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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-5
9C05001-05 (Soil)

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

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.

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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-6
9C05001-06 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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-8
9C05001-08 (Soil)

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

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. | 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-9

9C05001-09 (Soil)

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

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 | |
| Surrogate: 1,4-Difluorobenzene | | 99.3 % | 75-125 | | P9C0517 | 03/05/19 | 03/05/19 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 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 | |
| Surrogate: 1-Chlorooctane | | 124 % | 70-130 | | P9C0505 | 03/05/19 | 03/05/19 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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-11
9C05001-11 (Soil)

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

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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| | | |
|---------------------------|---|---------------------|
| 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-12
9C05001-12 (Soil)

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

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|---|---------------------|
| 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-14
9C05001-14 (Soil)

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

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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|---------------------------|---|---------------------|
| 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 | |

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch P9C0504 - * DEFAULT PREP *****

| | | | | | | | | | |
|-----------------------------------|------|------|-----------|--|------|-----|--------|--------|----|
| Blank (P9C0504-BLK1) | | | | Prepared: 03/05/19 Analyzed: 03/06/19 | | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | |
| LCS (P9C0504-BS1) | | | | Prepared: 03/05/19 Analyzed: 03/06/19 | | | | | |
| Chloride | ND | 1.00 | mg/kg wet | 400 | | | 80-120 | | |
| LCS Dup (P9C0504-BSD1) | | | | Prepared: 03/05/19 Analyzed: 03/06/19 | | | | | |
| Chloride | ND | 1.00 | mg/kg wet | 400 | | | 80-120 | | 20 |
| 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 |
| 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 |
| 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 | | |

Batch P9C0605 - * DEFAULT PREP *****

| | | | | | | | | | |
|---------------------------------|------|-----|---|--|------|--|--|------|----|
| Blank (P9C0605-BLK1) | | | | Prepared & Analyzed: 03/06/19 | | | | | |
| % Moisture | ND | 0.1 | % | | | | | | |
| Duplicate (P9C0605-DUP1) | | | | Source: 9C04002-26 Prepared & Analyzed: 03/06/19 | | | | | |
| % Moisture | 15.0 | 0.1 | % | | 16.0 | | | 6.45 | 20 |
| Duplicate (P9C0605-DUP2) | | | | Source: 9C05002-05 Prepared & Analyzed: 03/06/19 | | | | | |
| % Moisture | 7.0 | 0.1 | % | | 8.0 | | | 13.3 | 20 |

Permian Basin Environmental Lab, L.P.

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| | | |
|---------------------------|---|---------------------|
| 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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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| | | |
|---------------------------|---|---------------------|
| 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

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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: 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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| 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
| <i>Surrogate: 1-Chlorooctane</i> | | 108 % | 70-130 | | P9C1405 | 03/14/19 | 03/15/19 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 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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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 (12')

9C11004-04 (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 | 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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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-9 (12')
9C11004-05 (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 | 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 |
| <i>Surrogate: 1-Chlorooctane</i> | | 106 % | 70-130 | | P9C1507 | 03/15/19 | 03/15/19 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 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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| | | |
|---------------------------|------------------------------|---------------------|
| 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-9 (13')
9C11004-06 (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 | 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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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 | |

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| | | |
|---------------------------|------------------------------|---------------------|
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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 (13')
9C11004-09 (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 | 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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| | | |
|---------------------------|------------------------------|---------------------|
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| 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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|---------------------------|------------------------------|---------------------|
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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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

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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-14 (11')
9C11004-15 (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 | 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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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 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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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 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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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 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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 | | | |

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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 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

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.

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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: TO/ML

CHAIN-OF-CUSTODY

| | | | | | | | | | | |
|----------------------|-------|------|------|--------|--------|-----|------------------|--------------------------------|-----|------|
| Field Sample I.D. | Lab # | Date | Time | Matrix | # of C | HCl | HNO ₃ | H ₂ SO ₄ | ICE | UNPR |
|----------------------|-------|------|------|--------|--------|-----|------------------|--------------------------------|-----|------|

FIELD NOTES[illegible][illegible]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 3/11/19 8:45 RECEIVED BY: (Signature) _____

TURN AROUND TIME _____

NORMAL ☒ _____

LABORATORY USE ONLY: _____ THERM# _____

RECEIVING TEMP: 12-2-2 _____

| | | |
|---|----------------------|--------------------------|
| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
| <i>[Signature]</i> | <i>2/11/88 11:18</i> | <i>[Signature]</i> |
| <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> OTHER <input type="checkbox"/> | | |
| CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED | | |
| <input type="checkbox"/> CARRIER BILL # | | |

LABORATORY: PBE 2008-0-05 Handy report

☒ 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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.
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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch P9E0810 - * DEFAULT PREP *****

Blank (P9E0810-BLK1)

Prepared & Analyzed: 05/08/19

| | | | |
|----------|----|------|-----------|
| Chloride | ND | 1.00 | mg/kg wet |
|----------|----|------|-----------|

LCS (P9E0810-BS1)

Prepared & Analyzed: 05/08/19

| | | | | | | |
|----------|-----|------|-----------|-----|-----|--------|
| Chloride | 413 | 1.00 | mg/kg wet | 400 | 103 | 80-120 |
|----------|-----|------|-----------|-----|-----|--------|

LCS Dup (P9E0810-BSD1)

Prepared & Analyzed: 05/08/19

| | | | | | | | | |
|----------|-----|------|-----------|-----|-----|--------|-------|----|
| Chloride | 417 | 1.00 | mg/kg wet | 400 | 104 | 80-120 | 0.954 | 20 |
|----------|-----|------|-----------|-----|-----|--------|-------|----|

Calibration Blank (P9E0810-CCB1)

Prepared & Analyzed: 05/08/19

| | | | |
|----------|------|--|-----------|
| Chloride | 0.00 | | mg/kg wet |
|----------|------|--|-----------|

Calibration Blank (P9E0810-CCB2)

Prepared & Analyzed: 05/08/19

| | | | |
|----------|------|--|-----------|
| Chloride | 0.00 | | mg/kg wet |
|----------|------|--|-----------|

Calibration Check (P9E0810-CCV1)

Prepared & Analyzed: 05/08/19

| | | | | | | |
|----------|------|-------|-----------|------|-----|-------|
| Chloride | 20.7 | 0.100 | mg/kg wet | 20.0 | 103 | 0-200 |
|----------|------|-------|-----------|------|-----|-------|

Calibration Check (P9E0810-CCV2)

Prepared & Analyzed: 05/08/19

| | | | | | | |
|----------|------|-------|-----------|------|-----|-------|
| Chloride | 20.4 | 0.100 | mg/kg wet | 20.0 | 102 | 0-200 |
|----------|------|-------|-----------|------|-----|-------|

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 |
|----------|------|-------|-----------|------|-----|-------|

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 |
|----------|------|------|-----------|-----|-----|------|--------|

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 |
|----------|------|------|-----------|-----|-----|-----|--------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|------------|------|-----|---|------|------|----|

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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 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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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 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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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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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-13 (11')
9E09003-04 (Soil)

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

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. | 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')
9E09003-05 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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 South (5.5')
9E09003-07 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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. | 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 (12')
9E09003-11 (Soil)

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

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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.

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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 West (6')
9E09003-14 (Soil)

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

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.
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 (6.5')
9E09003-15 (Soil)

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

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. | 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 South (3')
9E09003-16 (Soil)

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

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. | 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 West (3')
9E09003-17 (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 | 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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 P9E0908 - * DEFAULT PREP *****

Blank (P9E0908-BLK1)

Prepared & Analyzed: 05/09/19

| | | | |
|----------|----|------|-----------|
| Chloride | ND | 1.00 | mg/kg wet |
|----------|----|------|-----------|

LCS (P9E0908-BS1)

Prepared & Analyzed: 05/09/19

| | | | | | | |
|----------|-----|------|-----------|-----|-----|--------|
| Chloride | 416 | 1.00 | mg/kg wet | 400 | 104 | 80-120 |
|----------|-----|------|-----------|-----|-----|--------|

LCS Dup (P9E0908-BSD1)

Prepared & Analyzed: 05/09/19

| | | | | | | | | |
|----------|-----|------|-----------|-----|-----|--------|------|----|
| Chloride | 408 | 1.00 | mg/kg wet | 400 | 102 | 80-120 | 1.98 | 20 |
|----------|-----|------|-----------|-----|-----|--------|------|----|

Calibration Blank (P9E0908-CCB1)

Prepared & Analyzed: 05/09/19

| | | | |
|----------|------|--|-----------|
| Chloride | 0.00 | | mg/kg wet |
|----------|------|--|-----------|

Calibration Blank (P9E0908-CCB2)

Prepared: 05/09/19 Analyzed: 05/10/19

| | | | |
|----------|------|--|-----------|
| Chloride | 0.00 | | mg/kg wet |
|----------|------|--|-----------|

Calibration Check (P9E0908-CCV1)

Prepared & Analyzed: 05/09/19

| | | | | | |
|----------|------|-------|-----------|--|-------|
| Chloride | 19.9 | 0.100 | mg/kg wet | | 0-200 |
|----------|------|-------|-----------|--|-------|

Calibration Check (P9E0908-CCV2)

Prepared: 05/09/19 Analyzed: 05/10/19

| | | | | | |
|----------|------|-------|-----------|--|-------|
| Chloride | 21.1 | 0.100 | mg/kg wet | | 0-200 |
|----------|------|-------|-----------|--|-------|

Calibration Check (P9E0908-CCV3)

Prepared: 05/09/19 Analyzed: 05/10/19

| | | | | | |
|----------|------|-------|-----------|--|-------|
| Chloride | 21.2 | 0.100 | mg/kg wet | | 0-200 |
|----------|------|-------|-----------|--|-------|

Matrix Spike (P9E0908-MS1)

Source: 9E09003-01

Prepared & Analyzed: 05/09/19

| | | | | | | | |
|----------|------|------|-----------|-----|-----|-----|--------|
| Chloride | 1400 | 1.47 | mg/kg dry | 735 | 521 | 120 | 80-120 |
|----------|------|------|-----------|-----|-----|-----|--------|

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 |
|----------|------|------|-----------|-----|------|-----|--------|

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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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 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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

CHAIN-OF-CUSTOMERS

0110 N

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:

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES
BTEX ☒ MUGS ☒
TRP ☒ TPH ☒
CISOLINE MOD 8015 ☒ TPH 1005 ☒ TPH 1006 ☒
DIESEL MOD 8015 ☒
OIL MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☒
8081 PESTICIDES ☒ PAH 8270 ☒ HOLDPAH ☒
8082 PESTICIDES ☒ 8151 HERBICIDES ☒
TBLP - METALS (ROR) ☒ TCLP VOC ☒
TCLP - PEST ☒ HERB ☒ SEMI-VOC ☒
TOTAL METALS (ROR) ☒ OTHER LIST ☒
LEAD - TOTAL ☒ P.W. 200.8 ☒ TCLP ☒
RCI ☒ TOX ☒ FLASHPOINT ☒
TDS ☒ TSS ☒ % MOISTURE ☒ CYANIDE ☒
pH ☒ HEXAVALENT CHROMIUM ☒
EXPLOSIVES ☒ PENTACHLORATE ☒
CHLORIDE ANIONS ☒ ALKALINITY ☒
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: -65

THERM#: 641

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: -65

THERM#: 641

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: -65

THERM#: 641

LABORATORY:

PPEL

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP: -65

THERM#: 641

**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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 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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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 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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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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Permian Basin Environmental Lab, L.P.

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Data Reported to:

NO 0112
CHAIN-OF-CUSTODY

Page 16 of 16

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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 |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

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 | |
|------------|------|-----|---|---|---------|----------|----------|------------|--|

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

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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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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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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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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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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| | | |
|---------------------------|------------------------------|---------------------|
| 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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

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 | | | |

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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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| 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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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 | | | |

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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 | | | |

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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

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.

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

PAGE 1 OF 1

10

R: 10

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

Field
Sample I.D.

| Lab # | Date | Time |
|-------|------|------|
|-------|------|------|

Matrix

of Containers

HCl

 HNO_3

H_2SO_4 ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

ANALYSES

TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8260 ☒

SVOC 8270 ☒

8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐

8082 PCBs ☐ 8151 HERBICIDES ☐

TBLP - METALS (RORA) ☐ TCLP VOC ☐

TCLP - METALS (RORA) ☐ TCLP VOC ☐

TCLP - PEST ☐ HERB ☐ Semi-VOC ☐

TOTAL METALS (RCRA) ☐ OTHER LIST ☐

LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐

RCI ☐ TOX ☐ FLASHPOINT ☐

TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

pH ☐ HEXVALENT CHROMIUM ☐

EXPLOSIVES ☐ PECTHOLATE ☐

CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

1350

FIELD NO.

FIELD NOTES

[illegible]

TOTAL

RELINQUISHED BY 

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY: *CF 1*

DECLASSIFIED BY: 60320
DATE: 11/11/2011

DATE/TIME 11-1-00

RECEIVED BY (Signature)

NORMAL ☐

RECEIVING TEMP: 5.1 THERM#: 50

11/14/19 9:00

Theresa Deedee

1 DAY ☐ 2 DAY ☒ 3 DAY ☐ 4 DAY ☐ 5 DAY ☐ 6 DAY ☐ 7 DAY ☐ 8 DAY ☐ 9 DAY ☐ 10 DAY ☐ 11 DAY ☐ 12 DAY ☐ 13 DAY ☐ 14 DAY ☐ 15 DAY ☐ 16 DAY ☐ 17 DAY ☐ 18 DAY ☐ 19 DAY ☐ 20 DAY ☐ 21 DAY ☐ 22 DAY ☐ 23 DAY ☐ 24 DAY ☐ 25 DAY ☐ 26 DAY ☐ 27 DAY ☐ 28 DAY ☐ 29 DAY ☐ 30 DAY ☐ 31 DAY ☐ 32 DAY ☐ 33 DAY ☐ 34 DAY ☐ 35 DAY ☐ 36 DAY ☐ 37 DAY ☐ 38 DAY ☐ 39 DAY ☐ 40 DAY ☐ 41 DAY ☐ 42 DAY ☐ 43 DAY ☐ 44 DAY ☐ 45 DAY ☐ 46 DAY ☐ 47 DAY ☐ 48 DAY ☐ 49 DAY ☐ 50 DAY ☐ 51 DAY ☐ 52 DAY ☐ 53 DAY ☐ 54 DAY ☐ 55 DAY ☐ 56 DAY ☐ 57 DAY ☐ 58 DAY ☐ 59 DAY ☐ 60 DAY ☐ 61 DAY ☐ 62 DAY ☐ 63 DAY ☐ 64 DAY ☐ 65 DAY ☐ 66 DAY ☐ 67 DAY ☐ 68 DAY ☐ 69 DAY ☐ 70 DAY ☐ 71 DAY ☐ 72 DAY ☐ 73 DAY ☐ 74 DAY ☐ 75 DAY ☐ 76 DAY ☐ 77 DAY ☐ 78 DAY ☐ 79 DAY ☐ 80 DAY ☐ 81 DAY ☐ 82 DAY ☐ 83 DAY ☐ 84 DAY ☐ 85 DAY ☐ 86 DAY ☐ 87 DAY ☐ 88 DAY ☐ 89 DAY ☐ 90 DAY ☐ 91 DAY ☐ 92 DAY ☐ 93 DAY ☐ 94 DAY ☐ 95 DAY ☐ 96 DAY ☐ 97 DAY ☐ 98 DAY ☐ 99 DAY ☐ 100 DAY ☐ 101 DAY ☐ 102 DAY ☐ 103 DAY ☐ 104 DAY ☐ 105 DAY ☐ 106 DAY ☐ 107 DAY ☐ 108 DAY ☐ 109 DAY ☐ 110 DAY ☐ 111 DAY ☐ 112 DAY ☐ 113 DAY ☐ 114 DAY ☐ 115 DAY ☐ 116 DAY ☐ 117 DAY ☐ 118 DAY ☐ 119 DAY ☐ 120 DAY ☐ 121 DAY ☐ 122 DAY ☐ 123 DAY ☐ 124 DAY ☐ 125 DAY ☐ 126 DAY ☐ 127 DAY ☐ 128 DAY ☐ 129 DAY ☐ 130 DAY ☐ 131 DAY ☐ 132 DAY ☐ 133 DAY ☐ 134 DAY ☐ 135 DAY ☐ 136 DAY ☐ 137 DAY ☐ 138 DAY ☐ 139 DAY ☐ 140 DAY ☐ 141 DAY ☐ 142 DAY ☐ 143 DAY ☐ 144 DAY ☐ 145 DAY ☐ 146 DAY ☐ 147 DAY ☐ 148 DAY ☐ 149 DAY ☐ 150 DAY ☐ 151 DAY ☐ 152 DAY ☐ 153 DAY ☐ 154 DAY ☐ 155 DAY ☐ 156 DAY ☐ 157 DAY ☐ 158 DAY ☐ 159 DAY ☐ 160 DAY ☐ 161 DAY ☐ 162 DAY ☐ 163 DAY ☐ 164 DAY ☐ 165 DAY ☐ 166 DAY ☐ 167 DAY ☐ 168 DAY ☐ 169 DAY ☐ 170 DAY ☐ 171 DAY ☐ 172 DAY ☐ 173 DAY ☐ 174 DAY ☐ 175 DAY ☐ 176 DAY ☐ 177 DAY ☐ 178 DAY ☐ 179 DAY ☐ 180 DAY ☐ 181 DAY ☐ 182 DAY ☐ 183 DAY ☐ 184 DAY ☐ 185 DAY ☐ 186 DAY ☐ 187 DAY ☐ 188 DAY ☐ 189 DAY ☐ 190 DAY ☐ 191 DAY ☐ 192 DAY ☐ 193 DAY ☐ 194 DAY ☐ 195 DAY ☐ 196 DAY ☐ 197 DAY ☐ 198 DAY ☐ 199 DAY ☐ 200 DAY ☐ 201 DAY ☐ 202 DAY ☐ 203 DAY ☐ 204 DAY ☐ 205 DAY ☐ 206 DAY ☐ 207 DAY ☐ 208 DAY ☐ 209 DAY ☐ 210 DAY ☐ 211 DAY ☐ 212 DAY ☐ 213 DAY ☐ 214 DAY ☐ 215 DAY ☐ 216 DAY ☐ 217 DAY ☐ 218 DAY ☐ 219 DAY ☐ 220 DAY ☐ 221 DAY ☐ 222 DAY ☐ 223 DAY ☐ 224 DAY ☐ 225 DAY ☐ 226 DAY ☐ 227 DAY ☐ 228 DAY ☐ 229 DAY ☐ 230 DAY ☐ 231 DAY ☐ 232 DAY ☐ 233 DAY ☐ 234 DAY ☐ 235 DAY ☐ 236 DAY ☐ 237 DAY ☐ 238 DAY ☐ 239 DAY ☐ 240 DAY ☐ 241 DAY ☐ 242 DAY ☐ 243 DAY ☐ 244 DAY ☐ 245 DAY ☐ 246 DAY ☐ 247 DAY ☐ 248 DAY ☐ 249 DAY ☐ 250 DAY ☐ 251 DAY ☐ 252 DAY ☐ 253 DAY ☐ 254 DAY ☐ 255 DAY ☐ 256 DAY ☐ 257 DAY ☐ 258 DAY ☐ 259 DAY ☐ 260 DAY ☐ 261 DAY ☐ 262 DAY ☐ 263 DAY ☐ 264 DAY ☐ 265 DAY ☐ 266 DAY ☐ 267 DAY ☐ 268 DAY ☐ 269 DAY ☐ 270 DAY ☐ 271 DAY ☐ 272 DAY ☐ 273 DAY ☐ 274 DAY ☐ 275 DAY ☐ 276 DAY ☐ 277 DAY ☐ 278 DAY ☐ 279 DAY ☐ 280 DAY ☐ 281 DAY ☐ 282 DAY ☐ 283 DAY ☐ 284 DAY ☐ 285 DAY ☐ 286 DAY ☐ 287 DAY ☐ 288 DAY ☐ 289 DAY ☐ 290 DAY ☐ 291 DAY ☐ 292 DAY ☐ 293 DAY ☐ 294 DAY ☐ 295 DAY ☐ 296 DAY ☐ 297 DAY ☐ 298 DAY ☐ 299 DAY ☐ 300 DAY ☐ 301 DAY ☐ 302 DAY ☐ 303 DAY ☐ 304 DAY ☐ 305 DAY ☐ 306 DAY ☐ 307 DAY ☐ 308 DAY ☐ 309 DAY ☐ 310 DAY ☐ 311 DAY ☐ 312 DAY ☐ 313 DAY ☐ 314 DAY ☐ 315 DAY ☐ 316 DAY ☐ 317 DAY ☐ 318 DAY ☐ 319 DAY ☐ 320 DAY ☐ 321 DAY ☐ 322 DAY ☐ 323 DAY ☐ 324 DAY ☐ 325 DAY ☐ 326 DAY ☐ 327 DAY ☐ 328 DAY ☐ 329 DAY ☐ 330 DAY ☐ 331 DAY ☐ 332 DAY ☐ 333 DAY ☐ 334 DAY ☐ 335 DAY ☐ 336 DAY ☐ 337 DAY ☐ 338 DAY ☐ 339 DAY ☐ 340 DAY ☐ 341 DAY ☐ 342 DAY ☐ 343 DAY ☐ 344 DAY ☐ 345 DAY ☐ 346 DAY ☐ 347 DAY ☐ 348 DAY ☐ 349 DAY ☐ 350 DAY ☐ 351 DAY ☐ 352 DAY ☐ 353 DAY ☐ 354 DAY ☐ 355 DAY ☐ 356 DAY ☐ 357 DAY ☐ 358 DAY ☐ 359 DAY ☐ 360 DAY ☐ 361 DAY ☐ 362 DAY ☐ 363 DAY ☐ 364 DAY ☐ 365 DAY ☐ 366 DAY ☐ 367 DAY ☐ 368 DAY ☐ 369 DAY ☐ 370 DAY ☐ 371 DAY ☐ 372 DAY ☐ 373 DAY ☐ 374 DAY ☐ 375 DAY ☐ 376 DAY ☐ 377 DAY ☐ 378 DAY ☐ 379 DAY ☐ 380 DAY ☐ 381 DAY ☐ 382 DAY

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

OTHER ☐

☐ CARRIER BILL #

LABORATORY

10


☐ HAND DELIVERED


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 |
| | 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 | | | | | | |
| | 40 | | SC | | 39.51 | | | 2" Sch. 40 PVC Threaded 0.0.0" Slotted Screw |
| | 45 | Saturated Soil @ 45' | | | Depth of Water at Time of Drilling | | | |
| | | TD: 45' | | | 47.14 | | | Cap |
| | | | | | 47.64 | | | |


1-2-2019
36.54



 ONE CONTINUOUS AUGER SAMPLER


 STANDARD PENETRATION TEST


 UNDISTURBED SAMPLE

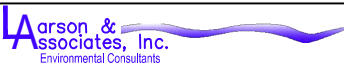
 WATER TABLE (24 HRS)

 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

Released to Imaging: 10/1/2024 2:21:44 PM

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 | Caliche | | | | | | | | | | | | | | | | 5 | 12:06 | |
| | 10 | | | | | | | | | | | | | | | | | | | 10 | 12:07 |
| | 15 | | | | | | | | | | | | | | | | | | | 15 | 12:08 |
| | 20 | | | | | | | | | | | | | | | | | | | 20 | 12:10 |
| | 25 | | | | | | | | | | | | | | | | | | | 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

STANDARD PENETRATION TEST

UNDISTURBED SAMPLE

WATER TABLE (24 HRS)

WATER TABLE (TIME OF BORING)

LABORATORY TEST LOCATION

PENETROMETER (TONS/ SQ. FT)

NO RECOVERY

JOB NUMBER : XTO Energy / 17-0193-01

HOLE DIAMETER : 7.25"

LOCATION : EMSU B SAT 13 Trunkline

LAI GEOLOGIST : A. Thielke

DRILLING CONTRACTOR : SDC

DRILLING METHOD : Air Rotary

Larson & Associates, Inc.
Environmental Consultants

DRILL DATE : 3-29-2018

BORING NUMBER : DP-2

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 | | | |
| | | | | | 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 | | | | | | | | | | | | | | | | | | | | 5 | 9:52 |
| | 10 | | | | | | | | | | | | | | | | | | | | 10 | 9:54 |
| | 15 | Caliche, 7.5YR 8/3, Pink, Sub-Rounded, Fine Grained Quartz Sand | Caliche | | | | | | | | | | | | | | | | 15 | 9:58 | | |
| | 20 | | | | | | | | | | | | | | | | | | | 20 | 10:03 | |
| | 25 | | | | | | | | | | | | | | | | | | | 25 | 10:07 | |
| | 30 | | | | | | | | | | | | | | | | | | | 30 | 10:12 | |
| | 35 | Sand, 8/3, Pink, Fine Grained Quartz Sand, Sub-Rounded | SW | | | | | | | | | | | | | | | | 35 | 10:15 | | |
| | 40 | | | | | | | | | | | | | | | | | | | 40 | 10:20 | |
| | | Wet at 35' | | | | | | | | | | | | | | | | | | | | |
| | | TD: 40' | | | | | | | | | | | | | | | | | | | | |

☐ 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

JOB NUMBER : XTO Energy / 17-0193-01

HOLE DIAMETER : 7.25"

LOCATION : EMSU B SAT13

LAI GEOLOGIST : A. Thielke

DRILLING CONTRACTOR : SDC

DRILLING METHOD : Air Rotary

| 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 | |
| | | | | | 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 |
| | 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 |

| | | |
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| 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>04-04-2018</u> | | DRILLING METHOD : <u>Air Rotary</u> |
| BORING NUMBER : <u>DP-6</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 | | | | | | | | | | | | | | | | | 5 | 9:20 | |
| | 10 | | Caliche | | | | | | | | | | | | | | | | 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 | |
| | | | | | 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' | | | | | | | | | | | | | | | | | | |

| | | |
|--------------------------------|--------------------------------|--|
| 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 | | | | | | | | | | | | | | | | 0 | 10:45 |
| | 5 | Caliche, 7.5YR, 8/3, Pink Fine Grained Quartz Sand, Sub- Angular | Caliche | | | | | | | | | | | | | | | | 5 | 10:47 |
| | 10 | | | | | | | | | | | | | | | | | | 10 | 10:49 |
| | 15 | 7.5YR, 8/3, Pink | | | | | | | | | | | | | | | | | | 10:50 |
| | 20 | Sand, Fine Grained Quartz Sand, Sub- Rounded | SW | | | | | | | | | | | | | | | | 20 | 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 | | | | | | | | | | | | | | | | 30 | 10:55 |
| | 35 | Wet at 35' | | | | | | | | | | | | | | | | | | 10:56 |
| | | 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-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 | BACKGROUND PID READING | |
| | | | | | 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) | 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) | 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-11</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 | | | |
| | | | | | 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> |

| | | | |
|--|--------------------------------|------------------------------|-------------------------------------|
| | DRILL DATE : <u>04-24-2018</u> | BORING NUMBER : <u>DP-12</u> | DRILLING CONTRACTOR : <u>SDC</u> |
| | | | DRILLING METHOD : <u>Air Rotary</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

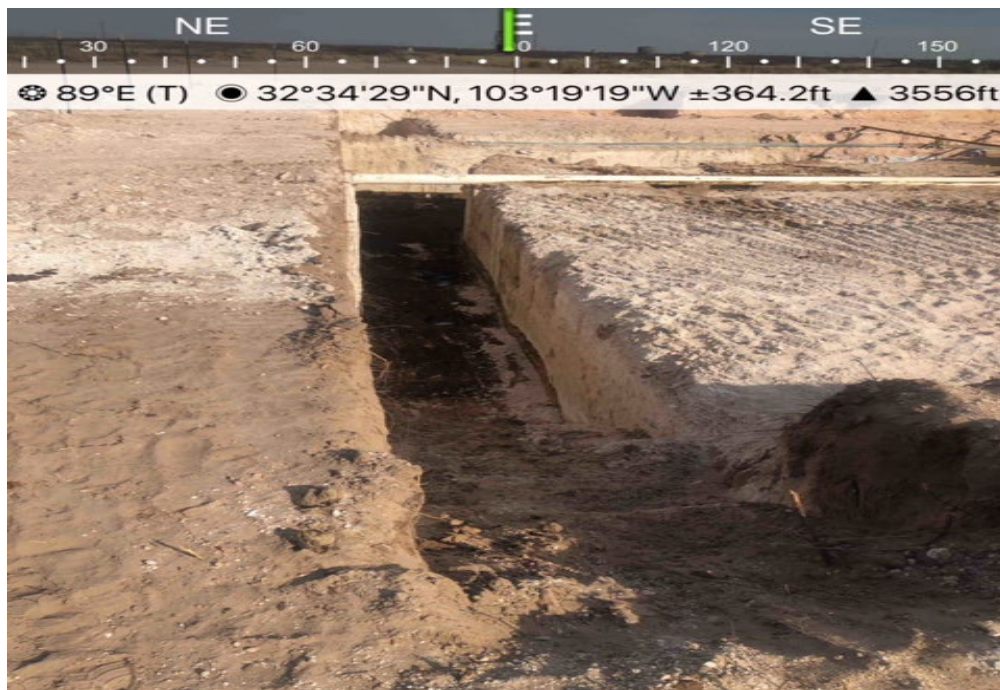


Excavation Area Viewing Southeast, December 4, 2018

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: | <input type="checkbox"/> Pollution Control And / Or Recovery | <input type="checkbox"/> Geo-Thermal |
| <input type="checkbox"/> Exploratory | <input type="checkbox"/> Construction Site De-Watering | <input type="checkbox"/> Other (Describe): |
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Mineral De-Watering | |
| A separate permit will be required to apply water to beneficial use. | | |
| <input type="checkbox"/> Temporary Request - Requested Start Date: | | Requested End Date: |
| Plugging Plan of Operations Submitted? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

1. APPLICANT(S)

| | |
|---|---|
| Name: XTO Energy, Inc. | Name: |
| Contact or Agent: Shelby Pennington <input type="checkbox"/> check here if Agent | Contact or Agent: <input type="checkbox"/> 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 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): (432) 571-8276 | Phone: <input type="checkbox"/> Home <input type="checkbox"/> 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: <input type="checkbox"/> Include a description of any proposed pump test, if applicable. | Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. | Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. | Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. |
| Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring. | <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> 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: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The amount of water to be diverted and re-injected for the project, <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request. | <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> 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:

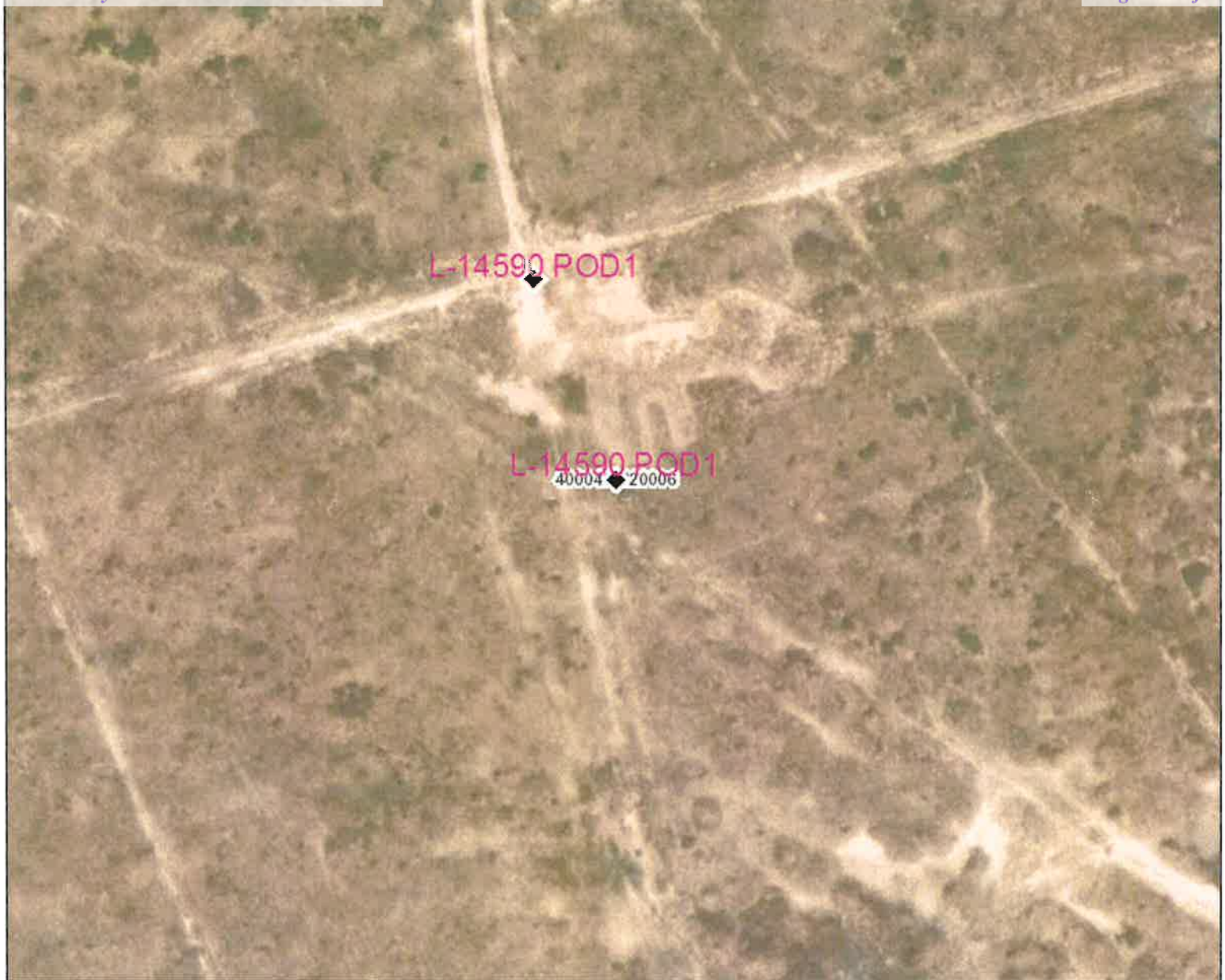
JUAN HERNANDEZ



Trn Desc: L 14590 POD1-2

File Number: L 14590

Trn Number: 635652



NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:2,257

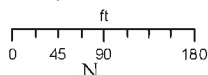


Image Info
Source: DigitalGlobe
Date: 10/27/2016
Resolution (m):0.5
Accuracy (m): 10.16

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

- ◆ Coord Search Location
- WRAB Abstract Project Areas
- Lea County Parcels 2018
- Sections

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

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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
DISTRICT II
LEA COUNTY

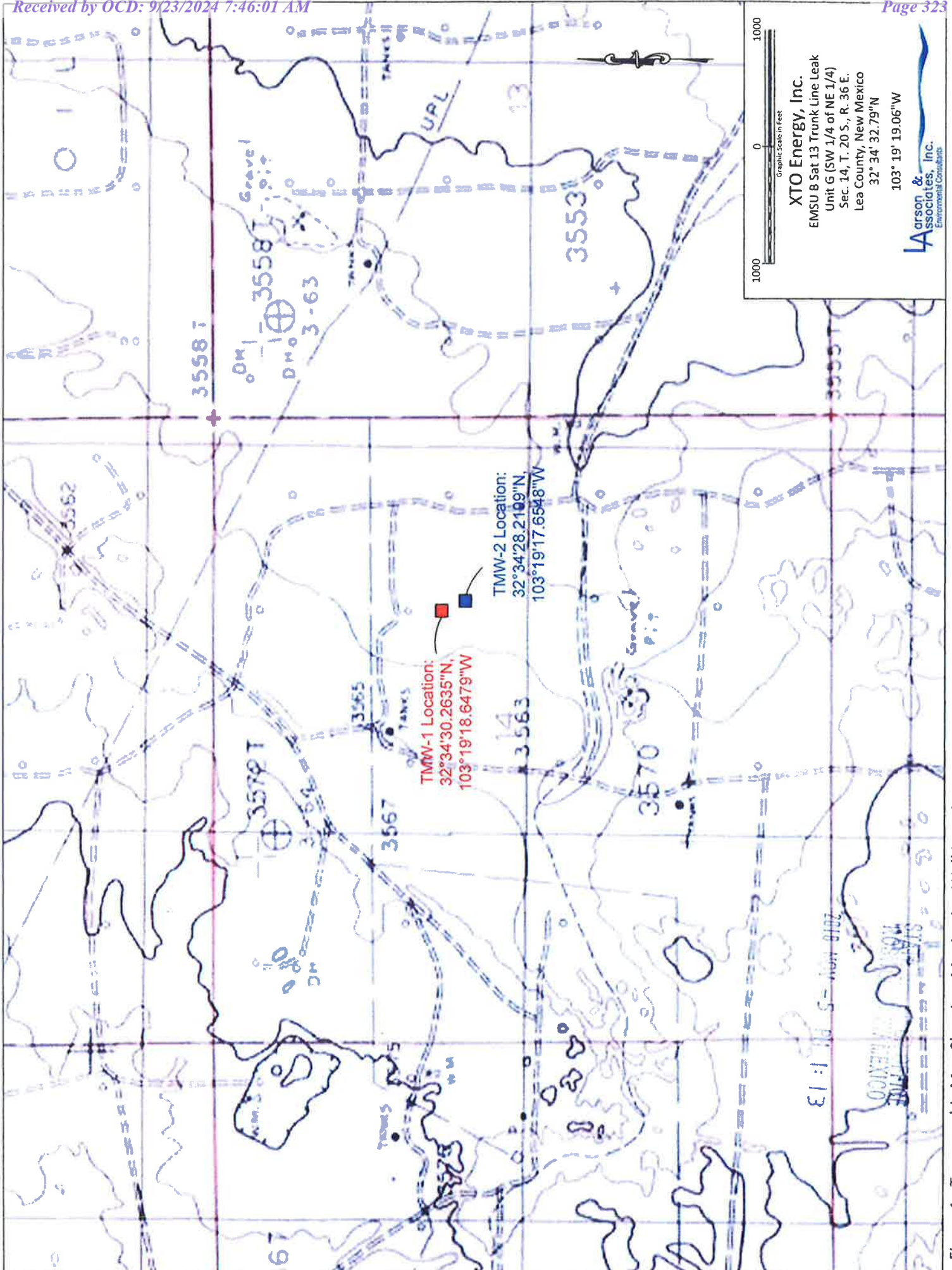


Figure 1 - Topographic Map Showing Monitoring Well Locations

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
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 OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
DISTRICT II
ROSWELL, NM

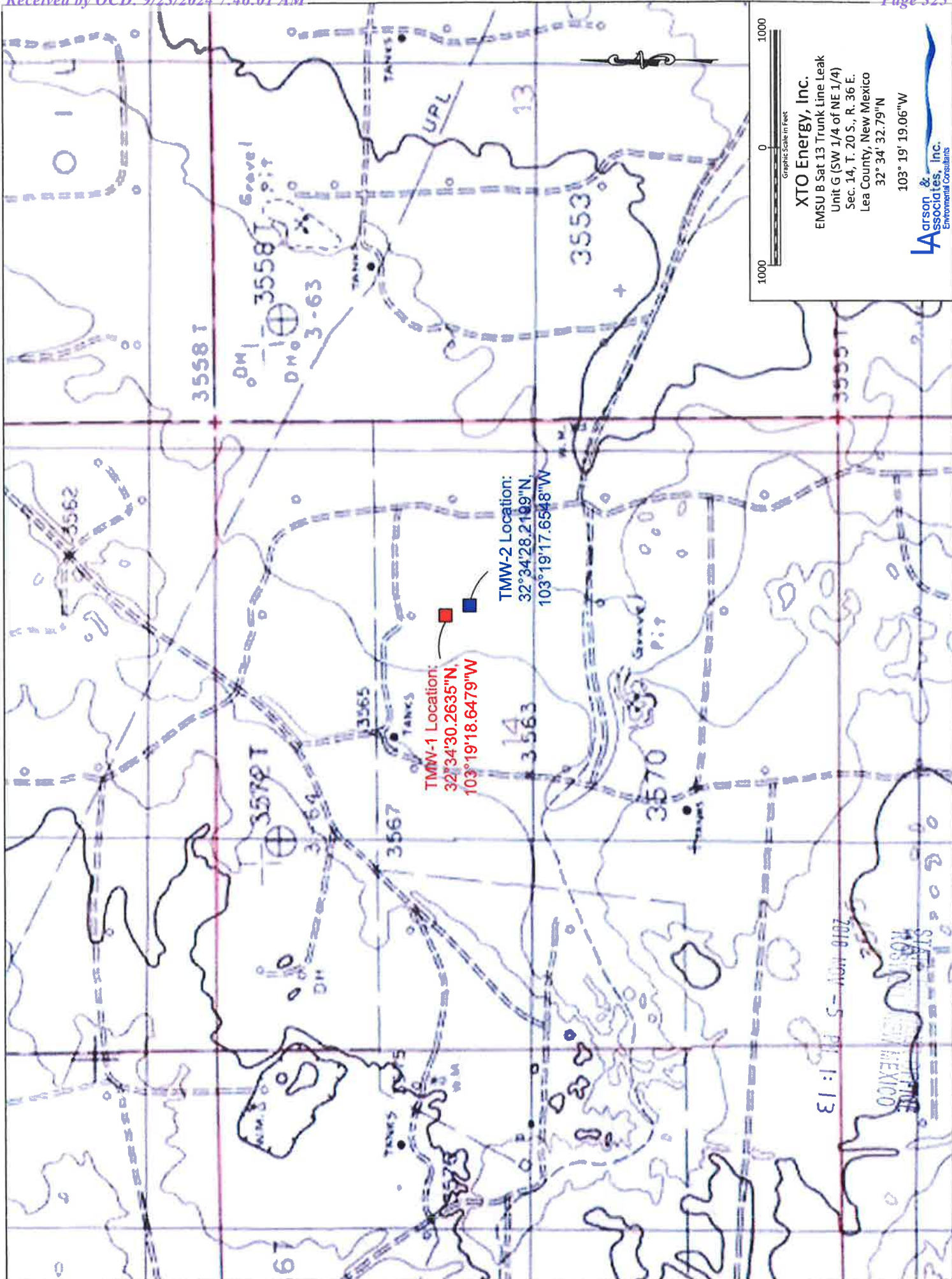


Figure 1 - Topographic Map Showing Monitoring Well Locations

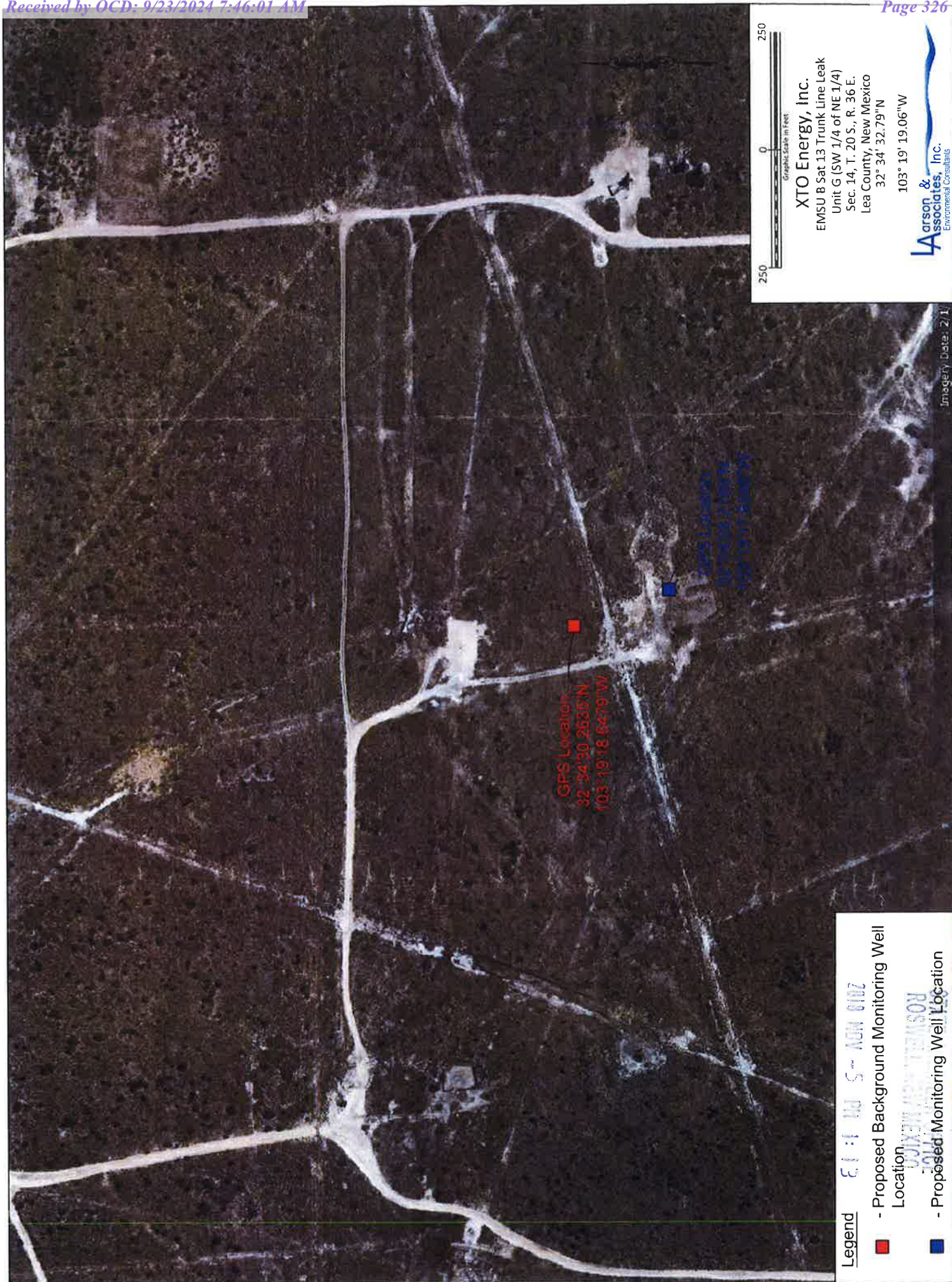


Figure 2 - Aerial Map



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.

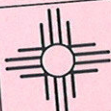
Mark J. Larson, P.G.
President/Sr. Hydrogeologist

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# LCA

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:

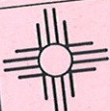
(SIGNATURE)

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

LEASE NAME: EMSU Sat #13

TRANSPORTER COMPANY: SDR

DATE: 12-6-18

VEHICLE NO: 30

TIME 9:50 AM/PM

GENERATOR COMPANY
MAN'S NAME: Scott Coffman

RIG NAME
AND NUMBER

575-294-3362

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# 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

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 **575-394-362**

CHARGE TO: **XTO**

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Solids

- ☐ Drilling Fluids
☒ Contaminated Soil
☐ BS&W Content:

- ☐ Rinsate
☐ Jet Out
☐ Call Out

Description: **CD**

C-133# **100**

RRC or API #

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)


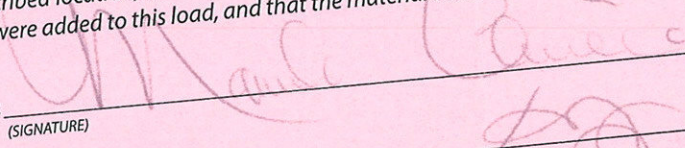
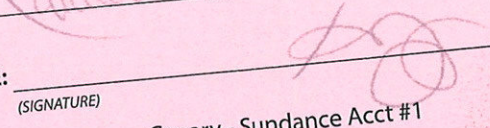
FACILITY REPRESENTATIVE:

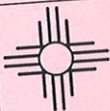
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

| | | | |
|--|--|---|--|
|  SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 | | TICKET No. 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 | | | |
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | |
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out | |
| Description: | | C-133# L.P.C. | |
| RRC or API # | | [] YARD 70 | |
| VOLUME OF MATERIAL [] BBLs. | | [] | |
| <p>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.</p> <p>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.</p> <p>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.</p> | | | |
| 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) 394-2511

TICKET No. 490434

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU 547 #13

TRANSPORTER COMPANY: SDR

DATE: 12-6-18 VEHICLE NO: 29

TIME 9:52 AM/PM

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 Out

Description: ON

C-133# L46

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) 394-2511TICKET No. **490457**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **6msu sat #13**TRANSPORTER COMPANY: **SDR**TIME **11:50** AM/PMDATE: **12-6-18** VEHICLE NO: **29**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 OutDescription: **no**

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: **YV Canale Canicio**

(SIGNATURE)

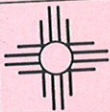
FACILITY REPRESENTATIVE: **HO**

(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. 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*

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 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 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)

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.** 490254LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: Emsu sat #13TRANSPORTER COMPANY: SOPTIME 11:00 AM/PMDATE: 12-5-18 VEHICLE NO: 29.GENERATOR 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# 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) 394-2511

TICKET No. 490223

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU SCH #13

TRANSPORTER COMPANY: SDR

TIME 8:34 AM/PM

DATE: 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

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: OO

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.

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

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511TICKET No. **490243**LEASE OPERATOR/SHIPPER/COMPANY: **XTO**LEASE NAME: **EMSU Sat #13**TRANSPORTER COMPANY: **SDR**TIME **10:41** AM/PMDATE: **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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **db**

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: **[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. 490081**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU scit #13TRANSPORTER COMPANY: SDRTIME 10:51 AM/PMDATE: 12-4-18 VEHICLE NO: 31GENERATOR 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: DN

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.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



TICKET No. 490112

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

LEASE NAME:

TRANSPORTER COMPANY:

TIME 1:47 AM/PM

DATE: 12-4-18

VEHICLE NO:

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#

VOLUME OF MATERIAL

[] BBLS.

[] YARD

•

1

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)

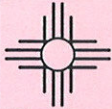
FACILITY REPRESENTATIVE:

(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.** 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.

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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. 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 O'BrienCHARGE TO: X70RIG 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: dh

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.

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: Ray Miller

(SIGNATURE)

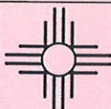
FACILITY REPRESENTATIVE: X70

(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: *YTO*

LEASE NAME: *EMSU sat #13*

TRANSPORTER COMPANY: *SDR*

TIME *10:59* AM/PM

DATE: *12-4-18* VEHICLE NO: *30*

GENERATOR COMPANY
MAN'S NAME: *Scott Coleman*

CHARGE TO: *YTO*

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# *Lee*

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

Released to Imaging: 10/1/2024 2:21:44 PM

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 NUMBER575-394-3362**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# 6ea

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. 489518**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMISU sat 13TRANSPORTER COMPANY: SDRTIME 1:23 AM/PMDATE: 11-30-18 VEHICLE NO: 030GENERATOR COMPANY
MAN'S NAME: Scott KautzmanCHARGE 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: (n)

RRC or API #

C-133# (-pa)

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. 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+OLEASE NAME: EMSU sat #13TRANSPORTER COMPANY: SDRTIME 10:37 AM/PMDATE: 12-3-18VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: X+ORIG NAME
AND NUMBER 575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133# 109VOLUME 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. 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: Rutt KaufmanCHARGE TO: X10RIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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: XTOLEASE NAME: emsu sat #13TRANSPORTER COMPANY: DDPTIME 12:51 AM/PMDATE: 12-3-18 VEHICLE NO: 31GENERATOR 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: 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.

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


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

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: *OD*
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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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 489872LEASE 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 NUMBER 575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: CD

RRC or API #

C-133# CEAVOLUME 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. 489897
LEASE OPERATOR/SHIPPER/COMPANY: *YTO*
LEASE NAME: *Emso sat #13*
TRANSPORTER COMPANY: *SDR*
TIME *10:53* (AM/PM)

DATE: *12-3-18*
VEHICLE NO: *29*

 GENERATOR COMPANY
 MAN'S NAME: *Scott Kaufman*
CHARGE TO: *YTO*

 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: *dh*
RRC or API #
C-133# *lea.*
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: *Tyler Y...*

(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. 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

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: no

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.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/1/2024 2:21:44 PM

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489875**LEASE OPERATOR/SHIPPER/COMPANY: XHOLEASE NAME: Emsu sat #13TRANSPORTER COMPANY: SORTIME 8:24 AM/PMDATE: 12-3-18 VEHICLE NO: 29GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XHORIG NAME
AND NUMBER575-394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: cb

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.

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DRIVER: Scott Kaufman

(SIGNATURE)

FACILITY REPRESENTATIVE: XHO

(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: *Xto*LEASE NAME: *Emso Scott 13*TRANSPORTER COMPANY: *SDR*TIME *2:15* AM/PMDATE: *11-29-18*VEHICLE NO: *006*GENERATOR COMPANY
MAN'S NAME: *Scott Kautman*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: *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: *Scott Kautman*

(SIGNATURE)

FACILITY REPRESENTATIVE: *KQ*

(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# 6691

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

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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. 489471

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU SCIT #13

TRANSPORTER COMPANY: SDR

TIME 9:51 AM/PM

DATE: 11-30-18 VEHICLE NO: 022

GENERATOR COMPANY
MAN'S NAME: Scott Kaufman

CHARGE TO: XTO

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: ON

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.** 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 Out

Description: ad

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.

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. 489472

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU sat # 13

TRANSPORTER COMPANY: SDR

TIME 9:50 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: ON

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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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)

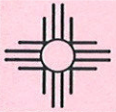
FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

**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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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 cat 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. 489496**LEASE 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☐

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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 Salt 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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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 10:30 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: *EMSL Satellite #3*TRANSPORTER COMPANY: *SPD*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: XTOLEASE NAME: EMSD Satellite #13TRANSPORTER COMPANY: 3012DATE: 11-29-18VEHICLE NO: 11TIME 8:10 AM/PMGENERATOR COMPANY
MAN'S NAME: Scott CoffmanCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-**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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DRIVER: Leopoldo Freyres

(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. 489311**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMSU SOFT #13TRANSPORTER COMPANY: SDRTIME 9:50 AM/PMDATE: 11-29-18 VEHICLE 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# 1eq.

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: Leopoldo Trevino

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/1/2024 2:21:44 PM

**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/PM)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# 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

(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*☐

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

Released to Imaging: 10/1/2024 2:21:44 PM



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 489332

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: EMSU satt #13

TRANSPORTER COMPANY: SPK

TIME 11:30 AM/PM

DATE: 11-29-18 VEHICLE NO: 022

GENERATOR COMPANY
MAN'S NAME: Scott Kaufman

CHARGE TO: XTO

RIG NAME
AND NUMBER

(375) 394-2362

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#

CPG

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. 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.** 489299**LEASE OPERATOR/SHIPPER/COMPANY:** Xto**LEASE NAME:** EMSU Satellite**TRANSPORTER COMPANY:** SDR**TIME** 8:14 AM/PM**DATE:** 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 Out**Description:** 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 sat 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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DRIVER: Leanne Trevino

(SIGNATURE)

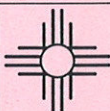
FACILITY REPRESENTATIVE: [Signature]

(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.** 488147LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: EMISV sat 13TRANSPORTER COMPANY: SPRTIME 8:39 AM/PMDATE: 11-19-18 VEHICLE NO: 006GENERATOR COMPANY
MAN'S NAME: Scott KaufmanCHARGE TO: XTORIG 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 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: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(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
(SIGNATURE)**FACILITY REPRESENTATIVE:** K32
(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. 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.

:

☒ 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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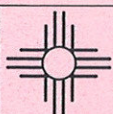
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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 488409**LEASE OPERATOR/SHIPPER/COMPANY: XTOLEASE NAME: ENSU sat 13TRANSPORTER COMPANY: SDRTIME 8:22 AM/PMDATE: 11-21-18 VEHICLE NO: 11

GENERATOR 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: 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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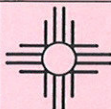
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DRIVER: Leanne D. Davis

(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: XHO

LEASE NAME: ENSU Sat 13

TRANSPORTER COMPANY: SDR

TIME 10:15 AM/PM

DATE: 11-21-18 VEHICLE NO: 11

GENERATOR COMPANY
MAN'S NAME: Scott Kaufman

CHARGE TO: XHO

RIG NAME
AND NUMBER 515-394-3362

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: CO

RRC or API #

C-133# CPA

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 12 : ☐ _____

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DRIVER: Leonardo Lewis
(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. 489182

LEASE OPERATOR/SHIPPER/COMPANY: *Xto*

LEASE NAME: *8msu Satellite #13*

TRANSPORTER COMPANY: *SDP*

TIME *9:41* AM/PM

DATE: *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

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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 Lopez*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/1/2024 2:21:44 PM

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 Site #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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: *00*

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD *12* : ☐ _____

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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: *Xto*LEASE NAME: *Saddle Light #13*TRANSPORTER COMPANY: *SOP*TIME *2:50* AM/PMDATE: *11-27-18* VEHICLE NO: *11*GENERATOR COMPANY
MAN'S NAME: *Scott Coffman*CHARGE TO: *Xto*RIG 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.

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: *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

- | | | |
|---|--|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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)

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/PM

 DATE: *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

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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 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.

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)

**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: SDRDATE: 11-28-18 VEHICLE NO: 22GENERATOR COMPANY
MAN'S NAME: Scott ColmanTIME 9:37 AM/PMCHARGE TO: XtoRIG NAME
AND NUMBER (575) 394-3362**TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: <u>00</u> | <input type="checkbox"/> 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.

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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. 489075**LEASE OPERATOR/SHIPPER/COMPANY: X40LEASE NAME: Saddle Light #113TRANSPORTER COMPANY: SDRTIME 11:23 AM/PMDATE: 11-27-15 VEHICLE 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☐

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)

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 489058**LEASE OPERATOR/SHIPPER/COMPANY: XtoLEASE NAME: Saddle 219F 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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/1/2024 2:21:44 PM

**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: *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.

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.

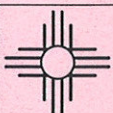
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DRIVER: *Leandro Lopez*

(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*TIME *1:19* AM/PMGENERATOR COMPANY
MAN'S NAME: *Scott Cotton*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 OutDescription: *DD*

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.☐ YARD *12*☐

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DRIVER: *Leobardo Trevino*

(SIGNATURE)

FACILITY REPRESENTATIVE: *El Gallo*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Released to Imaging: 10/1/2024 2:21:44 PM

**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/PMDATE: *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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: *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: *Scott Hoffman*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Salvador*

(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.** 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**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: *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: *Moncerat*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Salas*

(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. 494284
LEASE OPERATOR/SHIPPER/COMPANY: *XFO*
LEASE NAME: *8msu Satellite, 13*
TRANSPORTER COMPANY: *SDR/M. Mata*
TIME *12:29* **AM/PM**
DATE: *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

- | | | |
|---|--|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

 Description: *DD*
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.

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: *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: *SPR / M. Mata*
TIME *12:27* **AM/PM**
DATE: *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 Out

 Description: *DP*
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: *Moncarrat RB/3*

(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. 494286

LEASE OPERATOR/SHIPPER/COMPANY: *XTO*

LEASE NAME: *8/15/18 Satellite 13*

TRANSPORTER COMPANY: *SDR*

TIME *12:35* AM/PM

DATE: *1-9-18*

VEHICLE NO: *36*

GENERATOR COMPANY
MAN'S NAME: *Shelby Remington*

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: *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

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**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

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494278**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 11:52 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)

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. 494241

 LEASE OPERATOR/SHIPPER/COMPANY: *XTO*

 LEASE NAME: *PM 5U Satellite 13*

 TRANSPORTER COMPANY: *SDR / m. mark*

 TIME *8:19* AM/PM

 DATE: *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 Out

 Description: *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

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No. 494265**LEASE OPERATOR/SHIPPER/COMPANY: XHVLEASE NAME: EMSU Satellite 13TRANSPORTER COMPANY: SDR / M. MalaTIME 10:26 AM/PMDATE: 1-9-18 VEHICLE NO: 12GENERATOR COMPANY
MAN'S NAME: Shelby RemingtonCHARGE TO: XHVRIG 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.**P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511**TICKET No.** 494258LEASE OPERATOR/SHIPPER/COMPANY: *YTD*LEASE NAME: *Emell Satellite 13*TRANSPORTER COMPANY: *SDR*DATE: *1-9-18*VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Jolly Perina*TIME *9:58* AM/PMCHARGE TO: *YTD*RIG NAME
AND NUMBER *251-723-9353***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# *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: _____

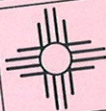
(SIGNATURE)

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 *8:00* 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)

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. 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

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. 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: *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]*

(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: *XTO*LEASE NAME: *EMSU Sgt #3*TRANSPORTER COMPANY: *SDR*TIME *9:42* AM/PMDATE: *1-10-19* VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*CHARGE TO: *XTO*RIG NAME
AND NUMBER *281-723-9353***TYPE OF MATERIAL**

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> 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.

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

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. **494418**LEASE OPERATOR/SHIPPER/COMPANY: **YTO**LEASE NAME: **EMSU Sat # 13**TRANSPORTER COMPANY: **SDR**DATE: **1-10-19** VEHICLE NO: **30**GENERATOR COMPANY
MAN'S NAME: **Shelby Pennington**TIME **10:21** AM/PMCHARGE TO: **YTO**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: **90**

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: **Ruben**

(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**GENERATOR COMPANY
MAN'S NAME: **Shelby Pennington**RIG NAME
AND NUMBER: **281-723-9353**TIME **10:18** AM/PMCHARGE TO: **XTO****TYPE OF MATERIAL**☐ Production Water☐ Tank Bottoms☐ Solids☐ Drilling Fluids☒ Contaminated Soil☐ BS&W Content:☐ Rinsate☐ Jet Out☐ Call OutDescription: **CD**C-133# **UPA**

RRC or API #

VOLUME OF MATERIAL ☐ BBLs. **20** ☒ 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]**

(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. 494386

LEASE OPERATOR/SHIPPER/COMPANY: *XTO*LEASE NAME: *Ensu Satellite #13*TRANSPORTER COMPANY: *SDR*TIME *7:42* AM/PMDATE: *1-9-19* VEHICLE NO: *29*GENERATOR COMPANY
MAN'S NAME: *Shelby Hemming*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: *EMSI Satellite #13*TIME *8:17* AM/PMTRANSPORTER COMPANY: *SON*GENERATOR COMPANY
MAN'S NAME: *Shelby Pennington*DATE: *1-10-19*VEHICLE NO: *30*RIG NAME
AND NUMBERCHARGE TO: *Xto***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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DRIVER: *Ruben*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Sal*

(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. 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 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*

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/PMDATE: *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.

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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:** CMSU Satellite B**TRANSPORTER COMPANY:** SDR / 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: Monterot Rd 3

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

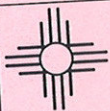
(SIGNATURE)

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*

TIME *2:27* AM/PM

TRANSPORTER COMPANY: *SDR / M. Mato*

GENERATOR COMPANY
MAN'S NAME: *Shelby Poming*

DATE: *1-9-19*

VEHICLE NO: *12*

RIG NAME
AND NUMBER *281-723-9353*

CHARGE TO: *Xto*

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☐ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: *00*

C-133#

RRC or API #

VOLUME OF MATERIAL ☐ BBLS. *20*

☐ 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: *Adrian*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Shelby*

(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.** 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

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. 494320**LEASE OPERATOR/SHIPPER/COMPANY: *Xto*LEASE NAME: *Emsu Satellite 13*TRANSPORTER COMPANY: *SDR*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

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

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: _____ |
| GENERATOR COMPANY MAN'S NAME: <u>Cott Kaulman</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: _____

VOLUME OF MATERIAL☐ BBLs. _____:☒ YARD 24:☐ _____

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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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: OK T2

(SIGNATURE)

FACILITY REPRESENTATIVE: K

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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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# 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: 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: **31**TRANSPORTER COMPANY: **SIX**

PHONE:

GENERATOR COMPANY MAN'S NAME: **Scott Krollman**PHONE: **133787-2031**CHARGE TO: **XHO**

TYPE OF MATERIAL

☐ Tank Bottoms☐ Drilling Fluids☐ Rinsate☐ BS&W Content:☐ Solids☒ Contaminated Soil☐ Jet OutDescription: **(C)**

VOLUME OF MATERIAL

☐ BBLs. _____☒ YARD **20**☐ _____

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>EMSU 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>CHSU Soil #13-</u> | TIME: <u>7:39</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.

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DRIVER: Ruban H

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

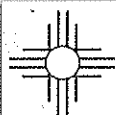
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
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 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
| | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | |
| Description: <u>CD</u> | | | | |
| VOLUME OF MATERIAL | <input type="checkbox"/> BBLs. _____: | <input checked="" type="checkbox"/> YARD <u>70</u> : | <input type="checkbox"/> _____ | |
| | | | | |
| 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)

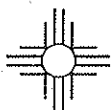
FACILITY REPRESENTATIVE: B
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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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. 509386

| | |
|---|----------------------------|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>XHO</u> | DATE: <u>5-17-17</u> |
| LEASE NAME: <u>Canary #13</u> | TIME: <u>10 AM/PM</u> |
| RIG NAME & NUMBER: | VEHICLE NO: <u>21</u> |
| TRANSPORTER COMPANY: <u>SDV</u> | PHONE: |
| GENERATOR COMPANY MAN'S NAME: <u>John Rodriguez</u> | PHONE: <u>705-235-7671</u> |
| CHARGE TO: <u>XHO</u> | |

TYPE OF MATERIAL

| | | | |
|---------------------------------------|---|----------------------------------|--|
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
| <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | |

Description: 60

VOLUME OF MATERIAL

| | | |
|--------------------------------------|--|--------------------------------|
| <input type="checkbox"/> BBLs. _____ | <input checked="" type="checkbox"/> YARD <u>20</u> | <input type="checkbox"/> _____ |
|--------------------------------------|--|--------------------------------|

RRC or API # C-133# 600

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: Ruben JH

(SIGNATURE)

FACILITY REPRESENTATIVE: K2

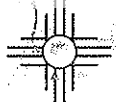
(SIGNATURE)

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 | <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Rinsate <input type="checkbox"/> BS&W Content: <input type="checkbox"/> Solids <input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Jet Out |
| Description: <u>CL</u> | |
| VOLUME OF MATERIAL | <input type="checkbox"/> BBLs. _____ : <input checked="" type="checkbox"/> YARD <u>20</u> : <input type="checkbox"/> _____ |
| RRC or API # | C-133# <u>601</u> |

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: Ruben H
 (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

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: 116**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# 116**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) 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

| | | | |
|---------------------------------------|--|----------------------------------|--|
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
| <input type="checkbox"/> Solids | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | |

Description: (C)

VOLUME OF MATERIAL

| | | |
|---------------------------------------|--|---------------------------------|
| <input type="checkbox"/> BBLS. _____: | <input checked="" type="checkbox"/> YARD <u>20</u> : | <input type="checkbox"/> _____: |
|---------------------------------------|--|---------------------------------|

RRC or API #

C-133# (C)**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

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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: KIC

DATE: 9/19/24

LEASE NAME: KIC

TIME: 7:31 AM/PM

RIG NAME & NUMBER:

VEHICLE NO: 21

TRANSPORTER COMPANY: KIC

PHONE:

GENERATOR COMPANY MAN'S NAME: Bill K. Korman

PHONE: 409-435-1111

CHARGE TO: 210

TYPE OF MATERIAL☐ Tank Bottoms☐ Drilling Fluids☐ Rinsate☐ BS&W Content:☐ Solids☐ Contaminated Soil☐ Jet Out

Description: 210

VOLUME OF MATERIAL☐ BBLs. _____☐ YARD _____☐ _____

RRC or API #

C-133# 6000

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) 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) 334-2056</u> |

CHARGE TO: YLO

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
 ☐ Solids ☒ Contaminated Soil ☐ Jet Out _____
Description: _____ AD

VOLUME OF MATERIAL ☐ BBLs. _____: ☐ YARD _____: ☐ _____

RRC or API #

C-133# 40.**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) 390-7842

TICKET No. 509225

| | |
|---|------------------------------------|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>XIO</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>Scott Reinhold</u> | PHONE: <u>405-224-2030</u> |

CHARGE TO: XIO**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: _____

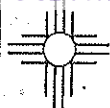
(SIGNATURE)

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: 7011 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: 409-224-2611 |

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.

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:

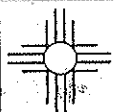
(SIGNATURE)

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. 509259

| | |
|---|------------------------------|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>XIO</u> | DATE: <u>8-19</u> |
| LEASE NAME: <u>WINDY HILL #13</u> | TIME: <u>7:27 AM/PM</u> |
| RIG NAME & NUMBER: | VEHICLE NO: <u>1</u> |
| TRANSPORTER COMPANY: <u>ONE</u> | PHONE: |
| GENERATOR COMPANY MAN'S NAME: <u>JOHN KENNEDY</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 40 : ☐ _____

RRC or API #

C-133#

STICKERS, CODES, NUMBERS, ETC.

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DRIVER: Ruben

(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. 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: SDDK | PHONE: |
| GENERATOR COMPANY MAN'S NAME: Scott Knutson | PHONE: 402 234 3070 |
| CHARGE TO: X10 | |

| | | | | |
|--------------------|---------------------------------------|---|----------------------------------|--|
| TYPE OF MATERIAL | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
| | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | |
| Description: (1) | | | | |
| VOLUME OF MATERIAL | <input type="checkbox"/> BBLs. _____: | <input checked="" type="checkbox"/> YARD 20 _____: | <input type="checkbox"/> _____: | |
| | | | | |
| RRC or API # | C-133# 6001 | | | |

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

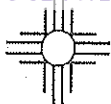
(SIGNATURE)

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. 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

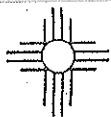
(SIGNATURE)

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.**

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: _____

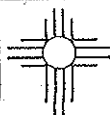
(SIGNATURE)

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) 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 <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Rinsate <input type="checkbox"/> BS&W Content: <input type="checkbox"/> Solids <input checked="" type="checkbox"/> Contaminated Soil <input type="checkbox"/> Jet Out | | |
| Description: <u>oil</u> | | |
| VOLUME OF MATERIAL <input type="checkbox"/> BBLs. _____ : <input checked="" type="checkbox"/> YARD <u>20</u> : <input type="checkbox"/> _____ | | |
| RRC or API # | | C-133# <u>600</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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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: _____

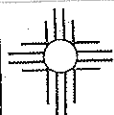
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-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>ENJOY 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 Out

Description: _____

VOLUME OF MATERIAL☐ BBLs. _____:☒ YARD 20:☐ _____

RRC or API #

C-133#

1200**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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White - Sundance

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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 199268

COMMENTS

| | |
|---|--|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 199268 |
| | Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

COMMENTS

| Created By | Comment | Comment Date |
|------------|----------------------------|--------------|
| amaxwell | Historical document upload | 3/21/2023 |

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CONDITIONS

Action 199268

CONDITIONS

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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 (10.01.2024) 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] | 10/1/2024 |