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	District 1
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-5118
Contact mailing address 6401 Holiday Hill Rd. Building 5 Midland TX 79707	

Location of Release Source

Latitude 32.42125 Longitude -103.13545
(NAD 83 in decimal degrees to 5 decimal places)

Site Name NM State S Battery	Site Type Tank Battery
Date Release Discovered 6/27/2018	API# *(if applicable)* 30-025-25268

Unit Letter	Section	Township	Range	County
F	2	22S	37E	Lea

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (*Name:* _____)

Nature and Volume of Release

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

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 71.30	Volume Recovered (bbls) 70.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	[X] Yes [ ] No
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by corrosion and age of a 2" nipple coming out of a fiber glass tank. The ball valve attached had broken off at the tank threads while an electrician was servicing the head switch. Equipment was replaced immediately and the leak was stopped.

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The 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)?
Immediate notice was given to NM State Land (Ryan Mann) by voice message and to NMOCD (Olivia Yu) by voice message and email.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Shelby Pennington
Title: Environmental Coordinator
Signature: Shelby Pennington
Date: 12/3/2019
email: shelby_pennington@xtoenergy.com
Telephone: 281-723-9353

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

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

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

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

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

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

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State of New Mexico
Oil Conservation Division

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

Printed Name: Shelby Pennington Title: Environmental Coordinator

Signature: Shelby Pennington Date: 12/3/2019

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

OCD Only

Received by: _____ Date: _____

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State of New Mexico
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Remediation Plan

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

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] 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.***

- [x] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [x] Extents of contamination must be fully delineated.
- [x] 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: 12/3/2019

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: _____

1RP-5118
AMENDED DEFERRAL REQUEST
New Mexico State S #5 Tank Battery
Lea County, New Mexico

Latitude: 32.421249° North
Longitude: -103.135452° West

LAI Project No. 18-0153-01

December 2, 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 E. Owen
Sr. Geoscientist

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1RP-5118
Amended Deferral Request
State S #5 Tank Battery
Produced Water Spill
December 2, 2019

1.0 INTRODUCTION

Larson & Associates, Inc., (LAI), on behalf of XTO Energy, Inc. (XTO), submits this amended deferral request to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water spill at the New Mexico State S #5 Tank Battery (Site) located in Unit F (SE/4, NW/4), Section 2, Township 22 South, Range 37 East in Lea County, New Mexico. The surface and mineral owner is the State of New Mexico administered by the New Mexico State Land Office (SLO). The geodetic position is North 32.421249° and West -103.135452°. Figure 1 presents a topographic map.

1.1 Background

The spill occurred on June 27, 2018, due to failure of a nipple on the water tank level switch causing approximately 71.30 barrels (bbls) of produced water to be released inside the earthen containment. Approximately 70.00 bbls were recovered. The affected area measures approximately 1,458.26 square feet. The initial C-141 was submitted to OCD District 1 on July 5, 2018, and was approved on July 9, 2018. OCD assigned the release remediation permit number 1RP-5118.

LAI delineated the release according to a delineation plan submitted to OCD District 1 on August 10, 2018, and was approved on August 28, 2018. LAI delineated the release according to 19.15.29.10 NMAC and submitted the results in a deferral request on July 1, 2019. The request asked to defer remediation of the contaminated soil in and around the battery until production at the facility ceases. The request was supported by the proximity of production equipment to the excavations.

On July 31, 2019, Mr. Ryan Mann with SLO objected to the deferral request and requested that the locations not in proximity to production equipment be remediated. Appendix A presents OCD correspondence.

1.2 Physical Setting

The Physical Setting is as follows:

- The surface elevation is approximately 3,365 feet above mean sea level (msl);
- The topography slopes to the southeast;
- The nearest surface water feature is a seasonal playa located approximately 800 feet north of the site;
- Ephemeral monument draw is located approximately 1.5 miles east of the Site;
- There are no lateral connections between the Site, seasonal playa, and Monument Draw;
- The soils are designated as “Berino-Cacique loamy fine sand, 0 to 3 percent slopes”, consisting of loamy fine sand about 12 inches thick and underlain by a sandy clay loam about 20 inches thick (bgs). The soil occurs over cemented material (caliche) present at approximately 28 inches below ground surface (bgs);
- The surface geology is designated as eolian and piedmont deposits (Holocene to middle Pleistocene) interbedded eolian sands and piedmont-slope deposits of the Tertiary-age Blackwater Draw and Ogallala formations, in descending order;
- Groundwater occurs in the Ogallala formation at approximately 30 feet bgs based on a nearby monitoring well;

- The nearest freshwater well based on State of New Mexico Office of the State Engineer (OSE) records is located in Unit M (SW/4, SW/4), Section 2, Township 22 South, Range 37 East, approximately 2,060 feet south from the Site.

1.3 Remediation Action Levels

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

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg
- Chloride 600 mg/Kg

2.0 REMEDIATION

From September 17 to 19, 2019, SDR Enterprises LLC (SDR) under LAI supervision, excavated soil from the following locations:

Location	Area (Square Feet)	Depth (Feet BGS)
DP-5	54	1.5
DP-6	61	5.0
DP-7	76	1.5
DP-8	223	2.0
DP-9	74	4.0
DP-10	58	1.5
DP-11	41	5.0

Approximately 90 cubic yards of contaminated soil were disposed at Sundance Services located east of Eunice, New Mexico.

On September 18 and 19, 2019, LAI personnel collected bottom and sidewall composite soil samples approximately every 200 square feet. The samples were delivered under preservation and chain of custody to Permian Basin Environmental Lab (PBEL) which analyzed the samples for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) and chloride by EPA SW-846 Methods 8021B, 8015M and EPA Method 300, respectively. The laboratory reported TPH above OCD remediation level of 100 mg/Kg in the following samples:

DP-5.4, 214 mg/Kg (south sidewall)
DP-6.2, 3,060 mg/Kg (north sidewall)
DP-8.1, 26,300 mg/Kg (west sidewall)
DP-8.4, 26,100 mg/Kg (south sidewall)
DP-6.2, 3,060 mg/Kg (north sidewall)
DP-6.4, 2,320 mg/Kg (south sidewall)
DP-8.2, 19,600 mg/Kg (north sidewall)
DP-8.5, 23,000 mg/Kg (south sidewall)

DP-8.6, 23,400 mg/Kg (bottom)
DP-8.7, 1,840 mg/Kg (bottom)
DP-9.4, 6,860 mg/Kg (south sidewall)
DP-11.1, 2,280 mg/Kg (west sidewall)
DP-11.2, 12,400 mg/Kg (north sidewall)
DP-11.4, 2,770 mg/Kg (south sidewall).

The laboratory reported chloride above OCD remediation level of 600 mg/Kg in the following samples:

DP-6.3, 832 mg/Kg (east sidewall)
DP-8.3, 950 mg/Kg (east sidewall)
DP-10.1, 1,810 mg/Kg (west sidewall)
DP-11.3, 727 mg/Kg (east sidewall)

Due to misunderstanding between XTO personnel the excavations were backfilled with caliche. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents the excavation locations. Appendix B presents the laboratory report. Appendix C presents photographs.

3.0 AMENDED DEFERRAL REQUEST

LAI personnel met in the field with Mr. Ryan Mann, SLO, on November 14, 2019, to review remediation. Mr. Mann agreed that the remediation performed was adequate until abandonment or equipment removal. Based on the interim remediation performed at the Site and follow up inspection by SLO, XTO respectfully requests approval to defer completion of the remediation until abandonment or equipment removal. This request is based on the fact that soil excavation is limited to the presence of equipment above and below ground that prohibits further excavation without risking damage to equipment and causing further environmental problems as well as jeopardizing the safety and daily activity of personnel. This deferral request is for DP-5, DP-6, DP-8, DP-9, DP-10, and DP-11.

Once production at the facility ceases, XTO proposes the following remedial actions:

- Remove the production equipment at the facility;
- Expand DP-5 Excavation sidewall south to complete remediation for chloride;
- Expand DP-6 Excavation sidewall north and south to complete remediation for TPH and sidewall east to complete remediation for chloride;
- Expand DP-8 Excavation sidewalls north, west, south and excavation bottom to complete remediation for TPH and sidewall east to complete remediation for chloride;
- Expand DP-9 excavation sidewall south to complete remediation for TPH;
- Expand DP -10 excavation sidewall west to complete remediation for chloride;
- Expand DP-11 Excavation sidewall north, south, and west to complete remediation for TPH and sidewall east to complete remediation for chloride;
- Collect sidewall (north, south, east, and west) and bottom confirmation samples from each expanded excavation and analyze for BTEX, TPH, and chloride;
- Request closure approval from OCD assuming no further excavation is necessary;
- Backfill excavations with clean topsoil;
- Seed the area with BLM mix #3;
- Submit remediation report with final C-141 upon completion.

Appendix D presents waste manifests.

Tables

Table 1
1RP-5118
Delineation Soil Sample Analytical Data Summary
XTO Energy, Inc., New Mexico State S Battery
Lea County, New Mexico

Sample	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 Level:				**10**	**50**				**100**	**600**
DP-1	0 - 1	09/17/2018	In-Situ	<0.00120	<0.00721	<30.1	86.4	<30.1	86.4	136
	1 - 2	09/17/2018	In-Situ	--	--	--	--	--	--	169
	2 - 3	01/19/2018	In-Situ	--	--	--	--	--	--	381
	3 - 4	01/19/2018	In-Situ	--	--	--	--	--	--	236
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	27.9
	6 - 8	09/17/2018	In-Situ	--	--	--	--	--	--	303
	8 - 10	09/17/2018	In-Situ	--	--	--	--	--	--	381
DP-2	0 - 1	09/17/2018	In-Situ	<0.00128	<0.03072	<32.1	<32.1	<32.1	<32.1	14.4
	1 - 2	09/17/2018	In-Situ	--	--	--	--	--	--	7.07
	2 - 3	09/17/2018	In-Situ	--	--	--	--	--	--	13.8
	3 - 4	09/17/2018	In-Situ	--	--	--	--	--	--	40
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	52.4
	6 -8	09/17/2018	In-Situ	--	--	--	--	--	--	32.5
DP-3	0 - 1	09/17/2018	In-Situ	<0.00123	<0.00739	<30.9	39.1	<30.9	39.1	18.5
	1 - 2	09/17/2018	In-Situ	--	--	--	--	--	--	32.4
	2 - 3	09/17/2018	In-Situ	--	--	--	--	--	--	70.2
	3 - 4	09/17/2018	In-Situ	--	--	--	--	--	--	103
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	91.5
	6 - 8	09/17/2018	In-Situ	--	--	--	--	--	--	83.4
	8 - 10	09/17/2018	In-Situ	--	--	--	--	--	--	191
DP-4	0 - 1	09/17/2018	In-Situ	<0.00111	<0.00666	<27.8	<27.8	<27.8	<27.8	5.00
	1 - 2	09/17/2018	In-Situ	--	--	--	--	--	--	4.35
	2 - 3	09/17/2018	In-Situ	--	--	--	--	--	--	1.76
	3 - 4	09/17/2018	In-Situ	--	--	--	--	--	--	7.60
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	8.69
	6 - 8	09/17/2018	In-Situ	--	--	--	--	--	--	8.53
	8 - 10	09/17/2018	In-Situ	--	--	--	--	--	--	8.07
	10 - 12	09/17/2018	In-Situ	--	--	--	--	--	--	3.86
DP-5	0 - 1	09/17/2018	In-Situ	<0.00104	<0.00624	<26.0	252	97.6	349.6	2.95
	1 - 2	09/17/2018	In-Situ	--	--	<26.9	39.7	<26.9	39.7	7.55
	2 - 3	09/17/2018	In-Situ	--	--	--	--	--	--	6.33
	3 - 4	09/17/2018	In-Situ	--	--	--	--	--	--	21.8
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	13.1
	6 - 8	09/17/2018	In-Situ	--	--	--	--	--	--	12.4
DP-6	0 - 1	09/18/2018	In-Situ	<0.00115	<0.0529	<28.7	683	242	925	701
	1 - 2	09/18/2018	In-Situ	--	--	<29.8	124	31.1	155.1	665
	2	11/7/2018	In-Situ	--	--	--	1450	506.0	1,960	--
	2 - 3	09/18/2018	In-Situ	--	--	<28.7	365	142	507	22.8
	3 - 4	09/18/2018	In-Situ	--	--	<28.4	238	89.3	327.3	69.8
	4	11/7/2018	In-Situ	--	--	--	117	35.4	153	--
	4 - 5	09/18/2018	In-Situ	--	--	41.3	690	135	866.3	57.8

Table 1
1RP-5118
Delineation Soil Sample Analytical Data Summary
XTO Energy, Inc., New Mexico State S Battery
Lea County, New Mexico

Sample	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 Level:				**10**	**50**				**100**	**600**
	6	11/7/2018	In-Situ	--	--	--	44	--	43.6	--
	8	11/7/2018	In-Situ	--	--	--	--	--	--	--
DP-7	0 - 1	09/17/2018	In-Situ	<0.00100	<0.00600	<25.0	2190	779	2,969	32.1
	1 - 2	09/17/2018	In-Situ	--	--	<29.4	256	74.2	330.2	21.5
	2 - 3	09/17/2018	In-Situ	--	--	<28.7	126	42.8	168.8	16.4
	3 - 4	09/17/2018	In-Situ	--	--	<28.7	120	48.0	168	15.9
	4 - 6	09/17/2018	In-Situ	--	--	<27.5	252	88.5	340.5	12.9
	6 - 8	09/17/2018	In-Situ	--	--	<27.8	76.5	<27.8	76.5	13.3
DP-8	0 - 1	09/18/2018	In-Situ	<0.00114	<0.05232	<28.4	2150	511	2,661	541
	1 - 2	09/18/2018	In-Situ	--	--	<29.1	153	63.7	216.7	225
	2 - 3	09/18/2018	In-Situ	--	--	<30.1	71.2	<30.1	71.2	516
	3 - 4	09/18/2018	In-Situ	--	--	--	--	--	--	673
	4 - 5	09/18/2018	In-Situ	--	--	--	--	--	--	222
DP-9	0 - 1	09/18/2018	In-Situ	<0.00123	<0.0567	<30.9	289	80.8	369.8	625
	1 - 2	09/18/2018	In-Situ	--	--	<27.8	153	59.1	212.1	1,480
	2 - 3	09/18/2018	In-Situ	--	--	<29.1	116	45.7	161.7	502
	3 - 4	09/18/2018	In-Situ	--	--	<30.5	56.4	<30.5	56.4	209
	4 - 5	09/18/2018	In-Situ	--	--	--	--	--	--	175
DP-10	0 - 1	09/17/2018	In-Situ	<0.00108	<0.00647	<26.9	499	179	678	76.0
	1 - 2	09/17/2018	In-Situ	--	--	<28.4	29.2	<28.4	29.2	138
	2 - 3	09/17/2018	In-Situ	--	--	--	--	--	--	316
	3 - 4	09/17/2018	In-Situ	--	--	--	--	--	--	485
	4 - 6	09/17/2018	In-Situ	--	--	--	--	--	--	359
	6 - 8	09/17/2018	In-Situ	--	--	--	--	--	--	297
DP-11	0 - 1	09/18/2018	In-Situ	0.155	22.605	9100	37800	5090	5,199	3,150
	1 - 2	09/18/2018	In-Situ	--	--	9770	18400	2950	3,112	1,790
	2	11/7/2018	In-Situ	--	--	180	1400	378	1,960	--
	2 - 3	09/18/2018	In-Situ	--	--	9300	12000	2000	2,330	1,120
	3 - 4	09/18/2018	In-Situ	--	--	1400	3640	547	5,587	804
	4	11/7/2018	In-Situ	--	--	395	1800	368	2,560	--
	4 - 5	09/18/2018	In-Situ	--	--	1080	3670	563	5,313	344
	6	11/7/2018	In-Situ	--	--	--	--	--	--	--
	8	11/7/2018	In-Situ	--	--	--	98	--	98.00	--
	9	11/7/2018	In-Situ	--	--	--	--	--	--	--

Notes: 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)
<: denotes concentration less than analytical method reporting limit

Table 2
1RP-5118
Confirmation Soil Sample Analytical Data Summary
XTO Energy, Inc., New Mexico State S Battery
Lea County, New Mexico

Sample	Location	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 Level:				**10**	**50**				**100**	**600**
DP-5.1	Sidewall West	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	87.8	<25.0	87.8	17
DP-5.2	Sidewall North	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	15.5
DP-5.3	Sidewall East	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	143	<25.0	143	15.2
DP-5.4	Sidewall South	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	214	<25.0	214	3.87
DP-5.5	Bottom (1.5')	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	11.3
DP-6.1	Sidewall West	9/19/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	317
DP-6.2	Sidewall North	9/19/2019	In-Situ	<0.00103	<0.00618	<25.8	2380	677	3,060	129
DP-6.3	Sidewall East	9/19/2019	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	832
DP-6.4	Sidewall South	9/19/2019	In-Situ	<0.00111	<0.00666	<27.8	1830	493	2,320	80.3
DP-6.5	Bottom (5')	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	681
DP-7.1	Sidewall West	9/18/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	81.7
DP-7.2	Sidewall North	9/18/2019	In-Situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	10.8
DP-7.3	Sidewall East	9/18/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	18.5
DP-7.4	Sidewall South	9/18/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	38.2
DP-7.5	Bottom (6')	9/18/2019	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	32.4
DP-8.1	Sidewall West	9/19/2019	In-Situ	<0.0202	7.913	1,610	20,600	4,090	26,300	273
DP-8.2	Sidewall North	9/19/2019	In-Situ	<0.0202	0.4736	969	15,700	2,960	19,600	48.70
DP-8.3	Sidewall East	9/19/2019	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	950
DP-8.4	Sidewall South	9/19/2019	In-Situ	<0.0206	16.534	3,180	19,400	3,550	26,100	307
DP-8.5	Sidewall South	9/19/2019	In-Situ	<0.0211	1.6164	2,270	17,300	3,430	23,000	135
DP-8.6	Bottom (2')	9/19/2019	In-Situ	<0.0213	7.531	3,380	16,200	3,860	23,400	63.8
DP-8.7	Bottom (2')	9/19/2019	In-Situ	<0.0211	1.339	123	1,390	325	1,840	158
DP-9.1	Sidewall West	9/18/2019	In-Situ	<0.00108	<0.00647	<26.9	55.3	<26.9	55.3	518
DP-9.2	Sidewall North	9/18/2019	In-Situ	<0.00118	<0.00707	<29.4	<29.4	<29.4	<29.4	134
DP-9.3	Sidewall East	9/18/2019	In-Situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	108
DP-9.4	Sidewall South	9/18/2019	In-Situ	<0.00114	<0.00683	<28.4	5430	1440	6860	340
DP-9.5	Bottom (4')	9/18/2019	In-Situ	<0.00115	<0.00690	<28.7	<28.7	<28.7	<28.7	589
DP-10.1	Sidewall West	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	61.5	<25.0	61.5	1,810
DP-10.2	Sidewall North	9/19/2019	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	119
DP-10.3	Sidewall East	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	74.3
DP-10.4	Sidewall South	9/19/2019	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	241
DP-10.5	Bottom (1.5')	9/19/2019	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	385
DP-11.1	Sidewall West	9/19/2019	In-Situ	<0.230	<0.138	302	1,760	219	2,280	263
DP-11.2	Sidewall North	9/19/2019	In-Situ	<0.0230	22.48	2,480	8,640	1,250	12,400	210
DP-11.3	Sidewall East	9/19/2019	In-Situ	<0.0215	<0.129	<26.9	<26.9	<26.9	<26.9	727
DP-11.4	Sidewall South	9/19/2019	In-Situ	<0.0213	<0.1278	<266	2,390	385	2,770	443
DP-11.5	Bottom (5')	9/19/2019	In-Situ	<0.0213	<0.129	28.1	164	32.3	225	287

Notes: 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)
<: denotes concentration less than analytical method reporting limit

Figures

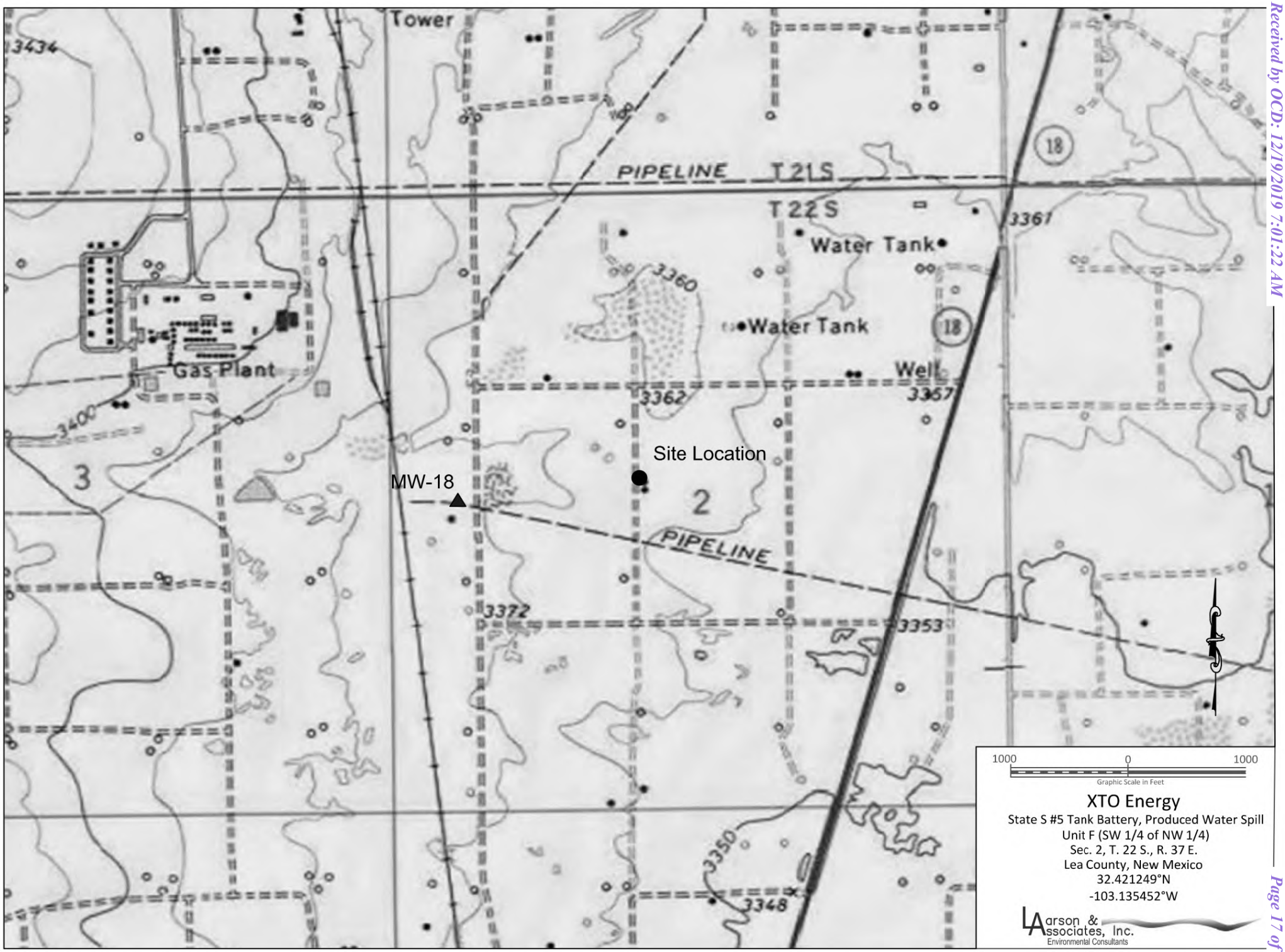

Figure 1 - Topographic Map

Figure 2 - Aerial Map Showing Soil Sample Locations

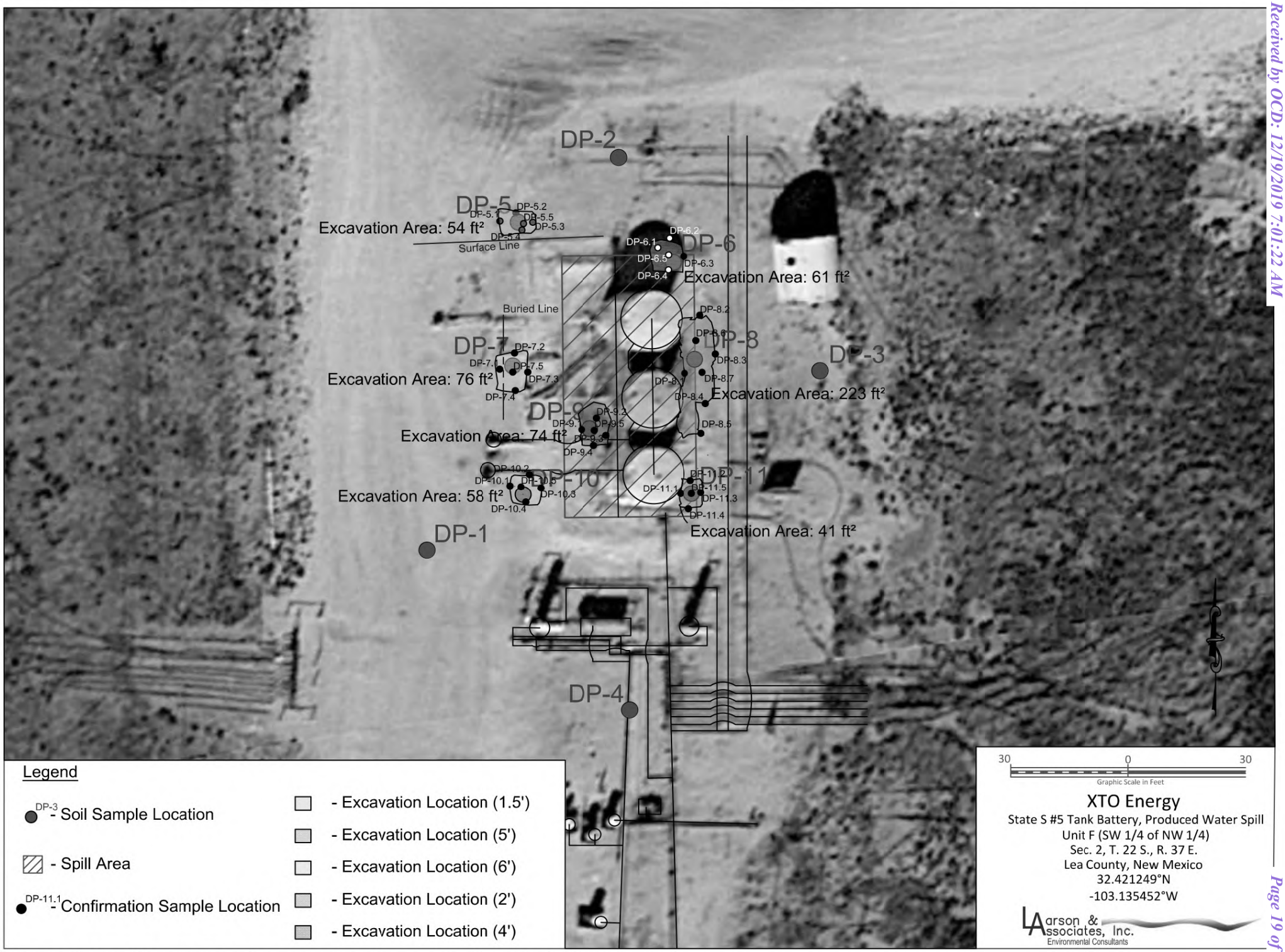

Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Soil Sample Locations

Appendix A

OCD Correspondence

Rachel Owen

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Thursday, August 15, 2019 11:54 AM
To: Pennington, Shelby
Cc: Mark Larson; Rachel Owen
Subject: RE: 1RP-5118 Deferral request NM state S # 5 Tank Battery

Ms. Pennington,

Thanks for your email. I can understand how the two emails might have caused some confusion. The intent of the first email was to inform XTO that deferral is partially granted. It appeared from the report that XTO was proposing to not do any immediate remediation at the site. This request is denied. However, the Division is accepting deferral of remediation that would involve major facility deconstruction. That is, the OCD is not asking that the tanks be moved, but is requesting that impacted soils which can be addressed without deconstructing any equipment be removed immediately.

You received the second email from the fees portal because the report as a whole was not accepted, and there is not an "accepted with conditions" option. In either event, the incident will involve an additional submittal through the portal once the closure activities have been carried out.

Anyway, thanks again for your time and attention to the site remediation. Please let me know if you have any additional questions.

Best,

Dylan Rose-Coss

Environmental Scientist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3488

From: Pennington, Shelby <Shelby_Pennington@xtoenergy.com>
Sent: Thursday, August 15, 2019 9:54 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>

Cc: Mark Larson <Mark@laenvironmental.com>; Rachel Owen <rowen@laenvironmental.com>
Subject: RE: 1RP-5118 Deferral request NM state S # 5 Tank Battery

Dylan,

Can you clarify exactly what NMOCD is expecting on this site? I received the email granting deferral. Then I received an email that it was declined (pasted below). It appears to be partially deferred? Please confirm, thanks in advance.

From: OCDOnline@state.nm.us [mailto:OCDOnline@state.nm.us]
Sent: Tuesday, August 13, 2019 4:05 PM
To: Littrell, Kyle <Kyle_Littrell@xtoenergy.com>
Subject: New Mexico OCD Application Submission was Rejected by the OCD

The Oil Conservation Division (OCD) has rejected the application PO: A3BDO-190729-C-1410.
The original application was submitted by Kyle Littrell for XTO ENERGY, INC.

The user added the additional comment:

"To whom it may concern, The OCD did not accept the entirety of the deferral request for this site. Please re-submit a report summarizing closure activities by November 11, 2019. Thanks, Dylan Rose-Coss NMOCD D1 Environmental Specialist ".

If you are concerned about receiving this email or have any other questions,
please feel free to contact our Santa Fe OCD office.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Shelby G. Pennington
Permian Basin
Environmental Coordinator
Remediation/Waste/Water
shelby_pennington@xtoenergy.com
Cell: 281-723-9353
Office: 432-571-8276
Upstream Oil & Gas Unconventional (XTO Energy)

From: Rose-Coss, Dylan H, EMNRD [mailto:DylanH.Rose-Coss@state.nm.us]
Sent: Tuesday, August 13, 2019 3:37 PM
To: Pennington, Shelby <Shelby_Pennington@xtoenergy.com>
Cc: Mark Larson <Mark@laenvironmental.com>; Rachel Owen <rowen@laenvironmental.com>
Subject: 1RP-5118 Deferral request NM state S # 5 Tank Battery

Shelby Pennington,

The NMOCD has received and reviewed the deferral request for the incident at the New Mexico State #5 Tank battery (1RP-5118).
By 19.15.29.12 C. (2) NMAC, deferral of restoration for impacted surface areas may be granted If contamination is located in areas
immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction.
Therefore, a deferral is granted in this case for impacted areas underneath and immediately adjacent to the facility's production tanks.
However, impacted areas that are accessible without a major facility deconstruction must be immediately addressed.

Thanks, and let me know if you have any questions.

Best,

Dylan Rose-Coss

Environmental Scientist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3488

From: "Mann, Ryan" <rmann@slo.state.nm.us>
Date: July 31, 2019 at 12:10:20 PM CDT
To: 'Ashley Ager' <aager@ltenv.com>, "bradford.billings@state.nm.us" <bradford.billings@state.nm.us>, "EMNRD-OCD-District1spills@state.nm.us" <EMNRD-OCD-District1spills@state.nm.us>
Cc: "Littrell, Kyle" <Kyle_Littrell@xtoenergy.com>, Dan Moir <dmoir@ltenv.com>, 'Shelby Pennington' <shelby_pennington@xtoenergy.com>
Subject: RE: Deferral Report - New Mexico State S #5 Battery (1RP-5118)

Deferral as it is written now is denied.

Produced water was listed as the released contaminate. The sample results show elevated levels of TPH (hydrocarbons) at depth. This indicates a history of releases or leaks that have not been properly addressed. Several of the sample locations are not in proximity to equipment and should be remediated. Also, I do not feel comfortable with the justification of GW contamination at another site as the reason for deferral, especially without additional information. How far away is GW#18 from this location? What is the GW contamination at the site? Is this contamination delineated? Etc.

Please let me know if you have any questions.

Ryan Mann
Remediation Specialist
Surface Resources Division
Office: (575) 392-3697
Cell: (505) 699-1989
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240
rmann@slo.state.nm.us
nmstatelands.org

.....

From: Hernandez, Christina, EMNRD
To: Mark Larson; Yu, Olivia, EMNRD
Cc: Pennington, Shelby; Rachel Owen
Subject: [Disarmed] RE: 1RP-5118 - XTO Energy, Inc., New Mexico State S Tank Battery Produced Water Spill, Final Delineation Plant, August 8, 2018
Date: Tuesday, August 28, 2018 4:10:33 PM

Dear Mr. Larson:

NMOCD approves the delineation plan submitted for 1RP-5118. Please note that NMAC 19.15.29 has been revised and is available at: **MailScanner warning: numerical links are often malicious:** http://164.64.110.134/parts/title19/19.015.0029.html

Please be advised that as of Friday, August 24, 2018, a revised C-141 form has been issued. Please submit the requisite information, regarding the aforementioned release using this version. The C-141 (ver. 2017) will no longer be accepted. C-141 available at: http://www.emnrd.state.nm.us/OCD/forms.html

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, August 10, 2018 1:45 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>
Cc: Pennington, Shelby <Shelby_Pennington@xtoenergy.com>; Rachel Owen <rowen@laenvironmental.com>
Subject: Re: 1RP-5118 - XTO Energy, Inc., New Mexico State S Tank Battery Produced Water Spill, Final Delineation Plant, August 8, 2018

Dear Ms. Yu and Ms. Hernandez,
Larson & Associates, Inc. (LAI), on behalf of XTO Energy, Inc. (XTO) submits the attached delineation

plan for a produced water spill at the New Mexico State S tank battery in Lea County, New Mexico. Please contact Shelby Pennington with XTO at (432) 571-8276 or 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)

www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

Appendix B

Laboratory Reports

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: New Mexico States #5 Battery

Project Number: 18-0153-01

Location: NM

Lab Order Number: 9I20011

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-18-9

Report Date: 10/08/19

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-7.1	9I20011-01	Soil	09/18/19 10:21	09-20-2019 16:00
DP-7.2	9I20011-02	Soil	09/18/19 10:19	09-20-2019 16:00
DP-7.3	9I20011-03	Soil	09/18/19 10:20	09-20-2019 16:00
DP-7.4	9I20011-04	Soil	09/18/19 10:22	09-20-2019 16:00
DP-7.5 (6')	9I20011-05	Soil	09/18/19 10:23	09-20-2019 16:00
DP-9.1	9I20011-06	Soil	09/18/19 10:51	09-20-2019 16:00
DP-9.2	9I20011-07	Soil	09/18/19 10:53	09-20-2019 16:00
DP-9.3	9I20011-08	Soil	09/18/19 10:55	09-20-2019 16:00
DP-9.4	9I20011-09	Soil	09/18/19 10:52	09-20-2019 16:00
DP-9.5 (4')	9I20011-10	Soil	09/18/19 10:54	09-20-2019 16:00
DP-11.1	9I20011-11	Soil	09/19/19 09:03	09-20-2019 16:00
DP-11.2	9I20011-12	Soil	09/19/19 09:05	09-20-2019 16:00
DP-11.3	9I20011-13	Soil	09/19/19 09:06	09-20-2019 16:00
DP-11.4	9I20011-14	Soil	09/19/19 09:07	09-20-2019 16:00
DP-11.5 (5')	9I20011-15	Soil	09/19/19 09:08	09-20-2019 16:00
DP-6.1	9I20011-16	Soil	09/19/19 12:50	09-20-2019 16:00
DP-6.2	9I20011-17	Soil	09/19/19 12:52	09-20-2019 16:00
DP-6.3	9I20011-18	Soil	09/19/19 12:54	09-20-2019 16:00
DP-6.4	9I20011-19	Soil	09/19/19 12:57	09-20-2019 16:00
DP-6.5 (5')	9I20011-20	Soil	09/19/19 12:59	09-20-2019 16:00
DP-5.1	9I20011-21	Soil	09/19/19 13:10	09-20-2019 16:00
DP-5.2	9I20011-22	Soil	09/19/19 13:15	09-20-2019 16:00
DP-5.3	9I20011-23	Soil	09/19/19 13:17	09-20-2019 16:00
DP-5.4	9I20011-24	Soil	09/19/19 13:18	09-20-2019 16:00
DP-5.5 (2')	9I20011-25	Soil	09/19/19 13:20	09-20-2019 16:00
DP-8.1	9I20011-26	Soil	09/19/19 13:48	09-20-2019 16:00
DP-8.2	9I20011-27	Soil	09/19/19 13:50	09-20-2019 16:00
DP-8.3	9I20011-28	Soil	09/19/19 13:53	09-20-2019 16:00
DP-8.4	9I20011-29	Soil	09/19/19 13:52	09-20-2019 16:00
DP-8.5	9I20011-30	Soil	09/19/19 13:55	09-20-2019 16:00
DP-8.6 (2')	9I20011-31	Soil	09/19/19 13:57	09-20-2019 16:00
DP-8.7 (2')	9I20011-32	Soil	09/19/19 14:00	09-20-2019 16:00
DP-10.1	9I20011-33	Soil	09/19/19 11:51	09-20-2019 16:00
DP-10.2	9I20011-34	Soil	09/19/19 11:52	09-20-2019 16:00

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-10.3	9I20011-35	Soil	09/19/19 11:53	09-20-2019 16:00
DP-10.4	9I20011-36	Soil	09/19/19 11:54	09-20-2019 16:00
DP-10.5	9I20011-37	Soil	09/19/19 11:55	09-20-2019 16:00

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-7.1

9I20011-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**81.7**	1.08	mg/kg dry	1	P9I2605	09/26/19	09/27/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.6 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.2 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/23/19	09/26/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-7.2

9I20011-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*83.5 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.8**	1.14	mg/kg dry	1	P9I2605	09/26/19	09/27/19	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.5 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	09/23/19	09/26/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-7.3

9I20011-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**18.5**	1.08	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/23/19	09/26/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-7.4

9I20011-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*84.6 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.2**	1.00	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.1 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/23/19	09/26/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-7.5 (6')

9I20011-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*115 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**32.4**	1.02	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9I2308	09/23/19	09/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.0 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P9I2308*	*09/23/19*	*09/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	09/23/19	09/26/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-9.1

9I20011-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*88.0 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**518**	1.08	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**55.3**	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*116 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**55.3**	26.9	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-9.2

9I20011-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00118	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**134**	1.18	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**15.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-9.3

9I20011-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.0 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*83.4 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**108**	1.14	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-9.4

9I20011-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9I2307	09/23/19	09/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*81.7 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*75-125*		*P9I2307*	*09/23/19*	*09/24/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**340**	1.14	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C12-C28	**5430**	28.4	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C28-C35	**1440**	28.4	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**6860**	28.4	mg/kg dry	1	[CALC]	09/24/19	10/02/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-9.5 (4')

9I20011-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P9I2404	09/24/19	09/25/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9I2404	09/24/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9I2404	09/24/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.1 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.0 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**589**	1.15	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.3 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-11.1

9I20011-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Toluene	ND	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0460	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*119 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**263**	1.15	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**302**	144	mg/kg dry	5	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**1760**	144	mg/kg dry	5	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**219**	144	mg/kg dry	5	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2280**	144	mg/kg dry	5	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-11.2

9I20011-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Toluene	**3.18**	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Ethylbenzene	**1.90**	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (p/m)	**8.91**	0.0460	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (o)	**8.49**	0.0230	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.9 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*75.4 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**210**	1.15	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2480**	287	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**8640**	287	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**1250**	287	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**12400**	287	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-11.3

9I20011-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0215	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Toluene	ND	0.0215	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.0215	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0430	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.0215	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*108 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*91.7 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**727**	1.08	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.8 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-11.4

9I20011-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Toluene	ND	0.0213	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.0213	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0426	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.0213	mg/kg dry	20	P9I2404	09/24/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		*P9I2404*	*09/24/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**443**	1.06	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	266	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**2390**	266	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**385**	266	mg/kg dry	10	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2770**	266	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-11.5 (5')

9I20011-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0426	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**287**	1.06	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**28.1**	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**164**	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**32.3**	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**225**	26.6	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-6.1

9I20011-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*86.8 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**317**	1.08	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*116 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-6.2

9I20011-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**129**	1.03	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C12-C28	**2380**	25.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C28-C35	**677**	25.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.5 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**3060**	25.8	mg/kg dry	1	[CALC]	09/24/19	10/02/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-6.3

9I20011-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*109 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**832**	1.06	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.5 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-6.4

9I20011-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**80.3**	1.11	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C12-C28	**1830**	27.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
>C28-C35	**493**	27.8	mg/kg dry	1	P9I2405	09/24/19	10/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.6 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P9I2405*	*09/24/19*	*10/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2320**	27.8	mg/kg dry	1	[CALC]	09/24/19	10/02/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-6.5 (5')

9I20011-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.0 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**681**	1.00	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.2 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-5.1

9I20011-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**17.0**	1.00	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**87.8**	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**87.8**	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-5.2

9I20011-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.5**	1.00	mg/kg dry	1	P9I2606	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*135 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
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Midland TX, 79710	Project Manager: Mark Larson	

DP-5.3

9I20011-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*104 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.2**	1.00	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**143**	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.8 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**143**	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-5.4

9I20011-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.87**	1.00	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	10/07/19	TPH 8015M	
>C12-C28	**214**	25.0	mg/kg dry	1	P9I2405	09/24/19	10/07/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	10/07/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.6 %*	*70-130*		*P9I2405*	*09/24/19*	*10/07/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.5 %*	*70-130*		*P9I2405*	*09/24/19*	*10/07/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**214**	25.0	mg/kg dry	1	[CALC]	09/24/19	10/07/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-5.5 (2')

9I20011-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*119 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11.3**	1.00	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2405	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P9I2405*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-8.1

9I20011-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	**2.15**	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	**4.99**	0.0404	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	**0.773**	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.8 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**273**	1.01	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1610**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**20600**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**4090**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*141 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**26300**	253	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-8.2

9I20011-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	**0.0426**	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	**0.193**	0.0404	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	**0.238**	0.0202	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.1 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*71.4 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**48.7**	1.01	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**969**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**15700**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**2960**	253	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*154 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**19600**	253	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-8.3

9I20011-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*109 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**950**	1.03	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-8.4

9I20011-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.0206	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	**0.674**	0.0206	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	**4.52**	0.0206	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	**7.35**	0.0412	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	**3.99**	0.0206	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.7 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*67.9 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**307**	1.03	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**3180**	258	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**19400**	258	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**3550**	258	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**26100**	258	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-8.5

9I20011-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Toluene	**0.0914**	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Ethylbenzene	**0.111**	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (p/m)	**1.25**	0.0421	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Xylene (o)	**0.164**	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.1 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*67.4 %*	*75-125*		*P9I2511*	*09/25/19*	*09/25/19*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**135**	1.05	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2270**	263	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**17300**	263	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**3430**	263	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**23000**	263	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-8.6 (2')

9I20011-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Toluene	**0.163**	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	**0.235**	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	**6.25**	0.0426	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	**0.883**	0.0213	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*62.0 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*81.5 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**63.8**	1.06	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**3380**	266	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**16200**	266	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**3860**	266	mg/kg dry	10	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**23400**	266	mg/kg dry	10	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-8.7 (2')

9I20011-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	**0.920**	0.0421	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	**0.419**	0.0211	mg/kg dry	20	P9I2511	09/25/19	09/26/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.4 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*74.0 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**158**	1.05	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**123**	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**1390**	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	**325**	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1840**	26.3	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-10.1

9I20011-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*109 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1810**	10.0	mg/kg dry	10	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	**61.5**	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**61.5**	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-10.2

9I20011-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9I2511	09/25/19	09/26/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*106 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P9I2511*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**119**	1.05	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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Midland TX, 79710	Project Manager: Mark Larson	

DP-10.3

9I20011-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.3 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**74.3**	1.00	mg/kg dry	1	P9I2607	09/26/19	09/27/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.1 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-10.4

9I20011-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**241**	1.00	mg/kg dry	1	P9I2607	09/26/19	09/28/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.3 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.2 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

DP-10.5

9I20011-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9I2518	09/25/19	09/26/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.1 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*75-125*		*P9I2518*	*09/25/19*	*09/26/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**385**	1.02	mg/kg dry	1	P9I2607	09/26/19	09/28/19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P9I2302	09/23/19	09/23/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9I2406	09/24/19	09/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*115 %*	*70-130*		*P9I2406*	*09/24/19*	*09/27/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	09/24/19	09/27/19	calc	

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P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2307 - General Preparation (GC)										
Blank (P9I2307-BLK1)				Prepared: 09/23/19 Analyzed: 09/24/19						
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: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*75-125*			
LCS (P9I2307-BS1)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.104	0.00100	"	0.100		104	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.221	0.00200	"	0.200		111	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.139*		"	*0.120*		*116*	*75-125*			
LCS Dup (P9I2307-BSD1)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.0966	0.00100	mg/kg wet	0.100		96.6	70-130	3.89	20	
Toluene	0.107	0.00100	"	0.100		107	70-130	2.35	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	1.49	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	8.68	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	1.92	20	
Surrogate: 1,4-Difluorobenzene	*0.138*		"	*0.120*		*115*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*101*	*75-125*			
Calibration Blank (P9I2307-CCB1)				Prepared: 09/23/19 Analyzed: 09/24/19						
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	*0.0980*		"	*0.120*		*81.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.1*	*75-125*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2307 - General Preparation (GC)										
Calibration Blank (P9I2307-CCB2)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*75-125*			
Calibration Blank (P9I2307-CCB3)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.3*	*75-125*			
Calibration Check (P9I2307-CCV1)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	*0.140*		"	*0.120*		*116*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.4*	*75-125*			
Calibration Check (P9I2307-CCV2)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.0856	0.00100	mg/kg wet	0.100		85.6	80-120			
Toluene	0.0964	0.00100	"	0.100		96.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.132*		"	*0.120*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.131*		"	*0.120*		*109*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2307 - General Preparation (GC)										
Calibration Check (P9I2307-CCV3)				Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.0932	0.00100	mg/kg wet	0.100		93.2	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.120*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.6*	*75-125*			
Matrix Spike (P9I2307-MS1)		**Source: 9I20003-01**		Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.0718	0.00110	mg/kg dry	0.110	ND	65.3	80-120			
Toluene	0.0867	0.00110	"	0.110	ND	78.9	80-120			
Ethylbenzene	0.0991	0.00110	"	0.110	ND	90.1	80-120			
Xylene (p/m)	0.165	0.00220	"	0.220	ND	75.0	80-120			
Xylene (o)	0.0920	0.00110	"	0.110	ND	83.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.137*		"	*0.132*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.158*		"	*0.132*		*120*	*75-125*			
Matrix Spike Dup (P9I2307-MSD1)		**Source: 9I20003-01**		Prepared: 09/23/19 Analyzed: 09/24/19						
Benzene	0.0664	0.00110	mg/kg dry	0.110	ND	60.4	80-120	7.75	20	
Toluene	0.0827	0.00110	"	0.110	ND	75.2	80-120	4.81	20	
Ethylbenzene	0.101	0.00110	"	0.110	ND	92.0	80-120	2.04	20	
Xylene (p/m)	0.163	0.00220	"	0.220	ND	74.0	80-120	1.27	20	
Xylene (o)	0.0914	0.00110	"	0.110	ND	83.2	80-120	0.599	20	
Surrogate: 1,4-Difluorobenzene	*0.151*		"	*0.132*		*115*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.144*		"	*0.132*		*109*	*75-125*			
Batch P9I2404 - General Preparation (GC)										
Blank (P9I2404-BLK1)				Prepared & Analyzed: 09/24/19						
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: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*98.9*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2404 - General Preparation (GC)										
LCS (P9I2404-BS1)				Prepared & Analyzed: 09/24/19						
Benzene	0.0842	0.00100	mg/kg wet	0.100		84.2	70-130			
Toluene	0.106	0.00100	"	0.100		106	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 1,4-Difluorobenzene	*0.144*		"	*0.120*		*120*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.137*		"	*0.120*		*114*	*75-125*			
LCS Dup (P9I2404-BSD1)				Prepared & Analyzed: 09/24/19						
Benzene	0.0889	0.00100	mg/kg wet	0.100		88.9	70-130	5.50	20	
Toluene	0.102	0.00100	"	0.100		102	70-130	3.17	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	7.01	20	
Xylene (p/m)	0.200	0.00200	"	0.200		99.8	70-130	1.71	20	
Xylene (o)	0.0978	0.00100	"	0.100		97.8	70-130	12.9	20	
Surrogate: 1,4-Difluorobenzene	*0.142*		"	*0.120*		*118*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*101*	*75-125*			
Calibration Blank (P9I2404-CCB1)				Prepared & Analyzed: 09/24/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.3*	*75-125*			
Calibration Blank (P9I2404-CCB2)				Prepared & Analyzed: 09/24/19						
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	*0.110*		"	*0.120*		*91.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
Project Manager: Mark Larson

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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 P9I2404 - General Preparation (GC)										
Calibration Blank (P9I2404-CCB3)				Prepared: 09/24/19 Analyzed: 09/25/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.1*	*75-125*			
Calibration Check (P9I2404-CCV1)				Prepared & Analyzed: 09/24/19						
Benzene	0.0932	0.00100	mg/kg wet	0.100		93.2	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.120*		*111*	*75-125*			
Calibration Check (P9I2404-CCV2)				Prepared & Analyzed: 09/24/19						
Benzene	0.0818	0.00100	mg/kg wet	0.100		81.8	80-120			
Toluene	0.0976	0.00100	"	0.100		97.6	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120			
Xylene (o)	0.0961	0.00100	"	0.100		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.142*		"	*0.120*		*118*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.137*		"	*0.120*		*114*	*75-125*			
Calibration Check (P9I2404-CCV3)				Prepared: 09/24/19 Analyzed: 09/25/19						
Benzene	0.0819	0.00100	mg/kg wet	0.100		81.9	80-120			
Toluene	0.0926	0.00100	"	0.100		92.6	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.0968	0.00100	"	0.100		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.120*		*118*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.139*		"	*0.120*		*116*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2404 - General Preparation (GC)										
Matrix Spike (P9I2404-MS1)	**Source: 9I24007-01**			Prepared: 09/24/19 Analyzed: 09/25/19						
Benzene	0.0738	0.00111	mg/kg dry	0.111	ND	66.5	80-120			QM-05
Toluene	0.0886	0.00111	"	0.111	ND	79.7	80-120			QM-05
Ethylbenzene	0.119	0.00111	"	0.111	ND	107	80-120			
Xylene (p/m)	0.170	0.00222	"	0.222	ND	76.3	80-120			QM-05
Xylene (o)	0.0875	0.00111	"	0.111	ND	78.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.151*		"	*0.133*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.145*		"	*0.133*		*109*	*75-125*			
Matrix Spike Dup (P9I2404-MSD1)	**Source: 9I24007-01**			Prepared: 09/24/19 Analyzed: 09/25/19						
Benzene	0.0691	0.00111	mg/kg dry	0.111	ND	62.2	80-120	6.66	20	QM-05
Toluene	0.0896	0.00111	"	0.111	ND	80.6	80-120	1.12	20	
Ethylbenzene	0.113	0.00111	"	0.111	ND	101	80-120	5.08	20	
Xylene (p/m)	0.161	0.00222	"	0.222	ND	72.3	80-120	5.46	20	QM-05
Xylene (o)	0.0787	0.00111	"	0.111	ND	70.9	80-120	10.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.147*		"	*0.133*		*110*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.148*		"	*0.133*		*111*	*75-125*			
Batch P9I2511 - General Preparation (GC)										
Blank (P9I2511-BLK1)				Prepared & Analyzed: 09/25/19						
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	*0.119*		"	*0.120*		*99.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.120*		*117*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2511 - General Preparation (GC)										
LCS (P9I2511-BS1)				Prepared & Analyzed: 09/25/19						
Benzene	0.0945	0.00100	mg/kg wet	0.100		94.5	70-130			
Toluene	0.112	0.00100	"	0.100		112	70-130			
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130			
Xylene (p/m)	0.227	0.00200	"	0.200		113	70-130			
Xylene (o)	0.120	0.00100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	*0.142*		"	*0.120*		*118*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*101*	*75-125*			
LCS Dup (P9I2511-BSD1)				Prepared & Analyzed: 09/25/19						
Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	11.7	20	
Toluene	0.109	0.00100	"	0.100		109	70-130	2.77	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	70-130	1.12	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	70-130	1.17	20	
Xylene (o)	0.120	0.00100	"	0.100		120	70-130	0.0833	20	
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*92.1*	*75-125*			
Calibration Blank (P9I2511-CCB1)				Prepared & Analyzed: 09/25/19						
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	*0.112*		"	*0.120*		*93.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.120*		*117*	*75-125*			
Calibration Blank (P9I2511-CCB2)				Prepared & Analyzed: 09/25/19						
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	*0.100*		"	*0.120*		*83.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.3*	*75-125*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2511 - General Preparation (GC)										
Calibration Blank (P9I2511-CCB3)				Prepared: 09/25/19 Analyzed: 09/26/19						
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	*0.121*		"	*0.120*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.120*		*113*	*75-125*			
Calibration Check (P9I2511-CCV1)				Prepared & Analyzed: 09/25/19						
Benzene	0.0862	0.00100	mg/kg wet	0.100		86.2	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.140*		"	*0.120*		*117*	*75-125*			
Calibration Check (P9I2511-CCV2)				Prepared & Analyzed: 09/25/19						
Benzene	0.0997	0.00100	mg/kg wet	0.100		99.7	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.137*		"	*0.120*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.120*		*103*	*75-125*			
Calibration Check (P9I2511-CCV3)				Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.3	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2511 - General Preparation (GC)										
Matrix Spike (P9I2511-MS1)		**Source: 9I20011-34**		Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.0519	0.00105	mg/kg dry	0.105	ND	49.3	80-120			QM-05
Toluene	0.0521	0.00105	"	0.105	ND	49.5	80-120			QM-05
Ethylbenzene	0.0596	0.00105	"	0.105	ND	56.6	80-120			QM-05
Xylene (p/m)	0.0953	0.00211	"	0.211	ND	45.3	80-120			QM-05
Xylene (o)	0.0498	0.00105	"	0.105	ND	47.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.126*		*88.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.144*		"	*0.126*		*114*	*75-125*			
Matrix Spike Dup (P9I2511-MSD1)		**Source: 9I20011-34**		Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.0760	0.00105	mg/kg dry	0.105	ND	72.2	80-120	37.6	20	QM-05
Toluene	0.0767	0.00105	"	0.105	ND	72.9	80-120	38.2	20	QM-05
Ethylbenzene	0.0888	0.00105	"	0.105	ND	84.4	80-120	39.5	20	QM-05
Xylene (p/m)	0.132	0.00211	"	0.211	ND	62.9	80-120	32.6	20	QM-05
Xylene (o)	0.0704	0.00105	"	0.105	ND	66.9	80-120	34.2	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.126*		*97.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.146*		"	*0.126*		*116*	*75-125*			
Batch P9I2518 - General Preparation (GC)										
Blank (P9I2518-BLK1)				Prepared: 09/25/19 Analyzed: 09/26/19						
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: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2518 - General Preparation (GC)										
LCS (P9I2518-BS1)				Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Toluene	0.109	0.00100	"	0.100		109	70-130			
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130			
Xylene (p/m)	0.207	0.00200	"	0.200		103	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.142*		"	*0.120*		*118*	*75-125*			
LCS Dup (P9I2518-BSD1)				Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	3.43	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	3.96	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130	0.604	20	
Xylene (p/m)	0.193	0.00200	"	0.200		96.3	70-130	6.99	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	0.508	20	
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.120*		*91.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			
Calibration Blank (P9I2518-CCB1)				Prepared: 09/25/19 Analyzed: 09/26/19						
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	*0.121*		"	*0.120*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.120*		*113*	*75-125*			
Calibration Blank (P9I2518-CCB2)				Prepared: 09/25/19 Analyzed: 09/26/19						
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	*0.120*		"	*0.120*		*99.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.133*		"	*0.120*		*111*	*75-125*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2518 - General Preparation (GC)										
Calibration Check (P9I2518-CCV1)				Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.3	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			
Calibration Check (P9I2518-CCV2)				Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.0857	0.00100	mg/kg wet	0.100		85.7	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.5	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*111*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.140*		"	*0.120*		*117*	*75-125*			
Matrix Spike (P9I2518-MS1)		**Source: 9I25005-01**		Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.0320	0.00108	mg/kg dry	0.108	ND	29.8	80-120			S-GC
Toluene	0.0187	0.00108	"	0.108	ND	17.4	80-120			S-GC
Ethylbenzene	0.0181	0.00108	"	0.108	ND	16.8	80-120			S-GC
Xylene (p/m)	0.0233	0.00215	"	0.215	ND	10.9	80-120			S-GC
Xylene (o)	0.0102	0.00108	"	0.108	ND	9.50	80-120			S-GC
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.129*		*94.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.129*		*94.5*	*75-125*			
Matrix Spike Dup (P9I2518-MSD1)		**Source: 9I25005-01**		Prepared: 09/25/19 Analyzed: 09/26/19						
Benzene	0.0310	0.00108	mg/kg dry	0.108	ND	28.8	80-120	3.41	20	S-GC
Toluene	0.0236	0.00108	"	0.108	ND	22.0	80-120	23.2	20	S-GC
Ethylbenzene	0.0208	0.00108	"	0.108	ND	19.3	80-120	14.0	20	S-GC
Xylene (p/m)	0.0417	0.00215	"	0.215	ND	19.4	80-120	56.4	20	S-GC
Xylene (o)	0.0183	0.00108	"	0.108	ND	17.0	80-120	56.7	20	S-GC
Surrogate: 1,4-Difluorobenzene	*0.141*		"	*0.129*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.129*		*82.5*	*75-125*			

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P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2302 - * DEFAULT PREP *** **										
Blank (P9I2302-BLK1)				Prepared & Analyzed: 09/23/19						
% Moisture	ND	0.1	%							
Duplicate (P9I2302-DUP1)		**Source: 9I20002-06**		Prepared & Analyzed: 09/23/19						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P9I2302-DUP2)		**Source: 9I20003-10**		Prepared & Analyzed: 09/23/19						
% Moisture	3.0	0.1	%		7.0			80.0	20	
Duplicate (P9I2302-DUP3)		**Source: 9I20011-22**		Prepared & Analyzed: 09/23/19						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P9I2302-DUP4)		**Source: 9I20011-37**		Prepared & Analyzed: 09/23/19						
% Moisture	1.0	0.1	%		2.0			66.7	20	
Batch P9I2605 - * DEFAULT PREP *** **										
Blank (P9I2605-BLK1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9I2605-BS1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	434	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P9I2605-BSD1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	429	1.00	mg/kg wet	400		107	80-120	1.22	20	
Calibration Blank (P9I2605-CCB1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							

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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 P9I2605 - * DEFAULT PREP *** **										
Calibration Blank (P9I2605-CCB2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9I2605-CCV1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	20.3		mg/kg	20.0		101	0-200			
Calibration Check (P9I2605-CCV2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	21.0		mg/kg	20.0		105	0-200			
Calibration Check (P9I2605-CCV3)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	21.1		mg/kg	20.0		105	0-200			
Matrix Spike (P9I2605-MS1)		**Source: 9I20003-07**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	2320	10.6	mg/kg dry	1060	1330	93.7	80-120			
Matrix Spike (P9I2605-MS2)		**Source: 9I20008-05**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	1360	5.00	mg/kg dry	500	911	89.1	80-120			
Matrix Spike Dup (P9I2605-MSD1)		**Source: 9I20003-07**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	2420	10.6	mg/kg dry	1060	1330	103	80-120	4.14	20	
Matrix Spike Dup (P9I2605-MSD2)		**Source: 9I20008-05**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	1410	5.00	mg/kg dry	500	911	98.9	80-120	3.55	20	
Batch P9I2606 - * DEFAULT PREP *** **										
Blank (P9I2606-BLK1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	ND	1.00	mg/kg wet							

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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 P9I2606 - * DEFAULT PREP *** **										
LCS (P9I2606-BS1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	421	1.00	mg/kg wet	400		105	80-120			
LCS Dup (P9I2606-BSD1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	419	1.00	mg/kg wet	400		105	80-120	0.531	20	
Calibration Blank (P9I2606-CCB1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9I2606-CCB2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9I2606-CCV1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	19.9		mg/kg	20.0		99.5	0-200			
Calibration Check (P9I2606-CCV2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P9I2606-CCV3)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	20.3		mg/kg	20.0		102	0-200			
Matrix Spike (P9I2606-MS1)		**Source: 9I20011-03**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	557	1.08	mg/kg dry	538	18.5	100	80-120			
Matrix Spike (P9I2606-MS2)		**Source: 9I20011-13**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	1340	1.08	mg/kg dry	538	727	114	80-120			
Matrix Spike Dup (P9I2606-MSD1)		**Source: 9I20011-03**		Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	538	1.08	mg/kg dry	538	18.5	96.6	80-120	3.45	20	

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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 P9I2606 - * DEFAULT PREP *** **										
Matrix Spike Dup (P9I2606-MSD2)	**Source: 9I20011-13**			Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	1260	1.08	mg/kg dry	538	727	98.2	80-120	6.50	20	
Batch P9I2607 - * DEFAULT PREP *** **										
Blank (P9I2607-BLK1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9I2607-BS1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	416	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P9I2607-BSD1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	423	1.00	mg/kg wet	400		106	80-120	1.72	20	
Calibration Blank (P9I2607-CCB1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9I2607-CCB2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9I2607-CCV1)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	20.3		mg/kg	20.0		102	0-200			
Calibration Check (P9I2607-CCV2)				Prepared: 09/26/19 Analyzed: 09/27/19						
Chloride	19.9		mg/kg	20.0		99.3	0-200			
Calibration Check (P9I2607-CCV3)				Prepared: 09/26/19 Analyzed: 09/28/19						
Chloride	20.7		mg/kg	20.0		103	0-200			

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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 P9I2607 - * DEFAULT PREP *** **										
Matrix Spike (P9I2607-MS1)		**Source: 9I20011-23**		Prepared: 09/26/19	Analyzed: 09/27/19					
Chloride	517	1.00	mg/kg dry	500	15.2	100	80-120			
Matrix Spike (P9I2607-MS2)		**Source: 9I20011-33**		Prepared: 09/26/19	Analyzed: 09/27/19					
Chloride	2700	10.0	mg/kg dry	1000	1810	89.0	80-120			
Matrix Spike Dup (P9I2607-MSD1)		**Source: 9I20011-23**		Prepared: 09/26/19	Analyzed: 09/27/19					
Chloride	506	1.00	mg/kg dry	500	15.2	98.2	80-120	2.08	20	
Matrix Spike Dup (P9I2607-MSD2)		**Source: 9I20011-33**		Prepared: 09/26/19	Analyzed: 09/27/19					
Chloride	2820	10.0	mg/kg dry	1000	1810	101	80-120	4.50	20	

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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 P9I2308 - TX 1005										
Blank (P9I2308-BLK1)				Prepared: 09/23/19 Analyzed: 09/26/19						
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	*60.6*		"	*50.0*		*121*	*70-130*			
LCS (P9I2308-BS1)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	939	25.0	mg/kg wet	1000		93.9	75-125			
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*122*		"	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		"	*50.0*		*99.3*	*70-130*			
LCS Dup (P9I2308-BSD1)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	8.56	20	
>C12-C28	1100	25.0	"	1000		110	75-125	7.00	20	
Surrogate: 1-Chlorooctane	*107*		"	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*55.0*		"	*50.0*		*110*	*70-130*			
Calibration Blank (P9I2308-CCB1)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	0.00		mg/kg wet							
>C12-C28	0.00		"							
Surrogate: 1-Chlorooctane	*0.00*		"	*100*			*70-130*			
Surrogate: o-Terphenyl	*0.00*		"	*50.0*			*70-130*			
Calibration Blank (P9I2308-CCB2)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	7.82		mg/kg wet							
>C12-C28	14.0		"							
Surrogate: 1-Chlorooctane	*114*		"	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*60.1*		"	*50.0*		*120*	*70-130*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2308 - TX 1005										
Calibration Check (P9I2308-CCV1)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	555	25.0	mg/kg wet	500		111	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	*122*		"	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*57.2*		"	*50.0*		*114*	*70-130*			
Calibration Check (P9I2308-CCV2)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	559	25.0	mg/kg wet	500		112	85-115			
>C12-C28	485	25.0	"	500		97.0	85-115			
Surrogate: 1-Chlorooctane	*126*		"	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*58.9*		"	*50.0*		*118*	*70-130*			
Calibration Check (P9I2308-CCV3)				Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	ND	25.0	mg/kg wet	500			85-115			
>C12-C28	ND	25.0	"	500			85-115			
Surrogate: 1-Chlorooctane	*0.00*		"	*100*			*70-130*			
Surrogate: o-Terphenyl	*0.00*		"	*50.0*			*70-130*			
Duplicate (P9I2308-DUP1)	**Source: 9I20011-05**			Prepared: 09/23/19 Analyzed: 09/26/19						
C6-C12	14.8	25.5	mg/kg dry		ND				20	
>C12-C28	ND	25.5	"		ND				20	
Surrogate: 1-Chlorooctane	*105*		"	*102*		*103*	*70-130*			
Surrogate: o-Terphenyl	*57.0*		"	*51.0*		*112*	*70-130*			
Batch P9I2405 - TX 1005										
Blank (P9I2405-BLK1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*133*		"	*140*		*94.9*	*70-130*			
Surrogate: o-Terphenyl	*72.6*		"	*70.0*		*104*	*70-130*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2405 - TX 1005										
LCS (P9I2405-BS1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	1100	25.0	mg/kg wet	1000		110	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	*130*		"	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*74.8*		"	*50.0*		*150*	*70-130*			*S-GC*
LCS Dup (P9I2405-BSD1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	5.02	20	
>C12-C28	1110	25.0	"	1000		111	75-125	1.92	20	
Surrogate: 1-Chlorooctane	*113*		"	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*62.3*		"	*50.0*		*125*	*70-130*			
Calibration Blank (P9I2405-CCB1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	10.3		mg/kg wet							
>C12-C28	15.5		"							
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*65.9*		"	*50.0*		*132*	*70-130*			*S-GC*
Calibration Blank (P9I2405-CCB2)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	16.4		mg/kg wet							
>C12-C28	23.0		"							
Surrogate: 1-Chlorooctane	*119*		"	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*65.0*		"	*50.0*		*130*	*70-130*			
Calibration Check (P9I2405-CCV1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*126*		"	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*61.6*		"	*50.0*		*123*	*70-130*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2405 - TX 1005										
Calibration Check (P9I2405-CCV2)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*124*		"	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*60.7*		"	*50.0*		*121*	*70-130*			
Calibration Check (P9I2405-CCV3)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	527	25.0	mg/kg wet	500		105	85-115			
>C12-C28	521	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*127*		"	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*61.0*		"	*50.0*		*122*	*70-130*			
Duplicate (P9I2405-DUP1)	**Source: 9I20011-25**			Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	10.7	25.0	mg/kg dry		ND				20	
>C12-C28	12.2	25.0	"		18.4			40.4	20	
Surrogate: 1-Chlorooctane	*102*		"	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*53.9*		"	*50.0*		*108*	*70-130*			
Batch P9I2406 - TX 1005										
Blank (P9I2406-BLK1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*134*		"	*140*		*95.6*	*70-130*			
Surrogate: o-Terphenyl	*72.8*		"	*70.0*		*104*	*70-130*			
LCS (P9I2406-BS1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	1150	25.0	mg/kg wet	1000		115	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	*141*		"	*140*		*100*	*70-130*			
Surrogate: o-Terphenyl	*73.1*		"	*70.0*		*104*	*70-130*			

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

Project: New Mexico States #5 Battery
Project Number: 18-0153-01
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 P9I2406 - TX 1005										
LCS Dup (P9I2406-BSD1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	12.0	20	
>C12-C28	1050	25.0	"	1000		105	75-125	5.01	20	
Surrogate: 1-Chlorooctane	*153*		"	*100*		*153*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*63.7*		"	*50.0*		*127*	*70-130*			
Calibration Blank (P9I2406-CCB1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	7.80		mg/kg wet							
>C12-C28	10.8		"							
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*65.4*		"	*50.0*		*131*	*70-130*			*S-GC*
Calibration Blank (P9I2406-CCB2)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	12.4		mg/kg wet							
>C12-C28	21.0		"							
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*65.1*		"	*50.0*		*130*	*70-130*			
Calibration Check (P9I2406-CCV1)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	527	25.0	mg/kg wet	500		105	85-115			
>C12-C28	521	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*127*		"	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*61.0*		"	*50.0*		*122*	*70-130*			
Calibration Check (P9I2406-CCV2)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	529	25.0	mg/kg wet	500		106	85-115			
>C12-C28	521	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*127*		"	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*61.2*		"	*50.0*		*122*	*70-130*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
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 P9I2406 - TX 1005										
Calibration Check (P9I2406-CCV3)				Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	564	25.0	mg/kg wet	500		113	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*113*		"	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*62.5*		"	*50.0*		*125*	*70-130*			
Duplicate (P9I2406-DUP1)	**Source: 9I23005-06**			Prepared: 09/24/19 Analyzed: 09/27/19						
C6-C12	10.7	26.0	mg/kg dry		ND				20	
>C12-C28	16.5	26.0	"		20.8			23.3	20	
Surrogate: 1-Chlorooctane	*120*		"	*104*		*115*	*70-130*			
Surrogate: o-Terphenyl	*65.5*		"	*52.1*		*126*	*70-130*			

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

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-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: Brent Barron Date: 10/8/2019

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project: New Mexico States #5 Battery	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 18-0153-01	
Midland TX, 79710	Project Manager: Mark Larson	

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 9/20/2019 PAGE 1 OF 3

PO#: _____ LAB WORK ORDER#: 9I20011

PROJECT LOCATION OR NAME: New Mexico State S Battery

LAI PROJECT #: 18-0153-01 COLLECTOR: RO

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	m300	FIELD NOTES
DP-7.1	1	9/18/19	10:21	S	1				X		X		X	X	X	X														X	
DP-7.2	2		10:19																												
DP-7.3	3		10:20																												
DP-7.4	4		10:22																												
DP-7.5(6')	5		10:23																												
DP-9.1	6		10:51																												
DP-9.2	7		10:53																												
DP-9.3	8		10:55																												
DP-9.4	9		10:52																												
DP-9.5 (4')	10		10:54																												
DP-11.1	11	9/19/19	9:03																												
DP-11.2	12		9:05																												
DP-11.3	13		9:06																												
DP-11.4	14		9:07																												
DP-11.5(5')	15		9:08																												
TOTAL	15																														

RELINQUISHED BY:(Signature) DATE/TIME 9/20 4:00 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 920 16:00 RECEIVED BY: (Signature)

LABORATORY: PBEL

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -2.0 -1.0 -1.0 THERM#: _____
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

№ 0767

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 9/20/2019 PAGE 2 OF 3

PO#: LAB WORK ORDER#: 9I20011

PROJECT LOCATION OR NAME: New Mexico State S Battery

LAI PROJECT #: 18-0153-01 COLLECTOR: RO

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ 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 ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	M300	FIELD NOTES
DP-6.1	16	9/19/19	12:50	S	1				X		X			X	X	X														X		
DP-6.2	17		12:52																													
DP-6.3	18		12:54																													
DP-6.4	19		12:57																													
DP-6.5(5')	20		12:59																													
DP-5.1	21		13:10																													
DP-5.2	22		13:15																													
DP-5.3	23		13:17																													
DP-5.4	24		13:18																													
DP-5.5(2')	25		13:20																													
DP-8.1	26		13:48																													
DP-8.2	27		13:50																													
DP-8.3	28		13:53																													
DP-8.4	29		13:52																													
DP-8.5	30		13:55																													
TOTAL	15																															

RELINQUISHED BY:(Signature) DATE/TIME 9/20 4:00 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 9-20 16:00 RECEIVED BY: (Signature)

LABORATORY: PBEL

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -2.0 +1.0 = 1.0 THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Nº 0768

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants

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

DATE: 9/20/2019 PAGE 3 OF 3

PO#: LAB WORK ORDER#: 9I20011

PROJECT LOCATION OR NAME: New Mexico State S Battery

LAI PROJECT #: 1B-0153-01 COLLECTOR: RD

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	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 ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐	7 1300	ALKALINITY ☐	FIELD NOTES
DP-B.6 (2')	31	9/19/19	13:57	S	1				X		X			X	X	X																										X			
DP-B.7 (2')	32	9/19/19	14:00	S	1				X		X			X	X	X																										X			
DP-10.1	33	"	11:51	S	1				X		X			X	X	X																										X			
DP-10.2	34	"	11:52	S	1				X		X			X	X	X																										X			
DP-10.3	35	"	11:53	S	1				X		X			X	X	X																										X			
DP-10.4	36	"	11:54	S	1				X		X			X	X	X																										X			
DP-10.5	37	"	11:55	S	1				X		X			X	X	X																										X			
TOTAL																																													

RELINQUISHED BY:(Signature) DATE/TIME 9/20 4:00 RECEIVED BY: (Signature)

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

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

LABORATORY: PBEL 9-20 1600

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -2.0 -1.0 -1.0 THERM#:
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Appendix C

Waste Manifests

SUNDANCE SERVICES, Inc.

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

TICKET No. 528035

LEASE OPERATOR/SHIPPER/COMPANY: XTO	DATE: 9-19-19
LEASE NAME: New Mexico "S" STB #5	TIME: AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 31
TRANSPORTER COMPANY: SDR	PHONE:
GENERATOR COMPANY MAN'S NAME: Shelby	PHONE:

CHARGE TO: XTO

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content: _____
[ ] Solids [ ] Contaminated Soil [ ] Jet Out

Description: OBM

VOLUME OF MATERIAL

[ ] BBLS. _____ : [ ] YARD 20 : [ ] _____

RRC or API # **C-133#** (EC)

STICKERS, CODES, NUMBERS, ETC.

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

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

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

DRIVER: _____
(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. 527985

LEASE OPERATOR/SHIPPER/COMPANY: XTO	DATE: 4-15-19
LEASE NAME: Neal Weir "S" Tank Battery #5	TIME: 11:29 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 31
TRANSPORTER COMPANY: SDS	PHONE:
GENERATOR COMPANY MAN'S NAME: Kelly Pennington	PHONE: 231-222535

CHARGE TO: XTO

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# Lea

STICKERS, CODES, NUMBERS, ETC.

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

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

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

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

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

SUNDANCE SERVICES, Inc.

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

TICKET No. 527963

LEASE OPERATOR/SHIPPER/COMPANY:	DATE:
LEASE NAME:	TIME: AM/PM
RIG NAME & NUMBER:	VEHICLE NO:
TRANSPORTER COMPANY:	PHONE:
GENERATOR COMPANY MAN'S NAME:	PHONE:

CHARGE TO:

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content: _____
[ ] Solids [ ] Contaminated Soil [ ] Jet Out

Description: _____

VOLUME OF MATERIAL

[ ] BBLS._____: [ ] YARD_____: [ ] _____

RRC or API # **C-133#**

STICKERS, CODES, NUMBERS, ETC.

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
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 527943

LEASE OPERATOR/SHIPPER/COMPANY: XTO	DATE: 9-19-19
LEASE NAME: New Mexico "N" State Tr #5	TIME: 7:42 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: [redacted]
TRANSPORTER COMPANY: SDB	PHONE: 31
GENERATOR COMPANY MAN'S NAME: Shelly Penrigon	PHONE: 281 723 45[illegible]

CHARGE TO: XTO

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

Description: OD

VOLUME OF MATERIAL: [ ] BBLS. ____ : [ ] YARD 20 : [ ] ____

RRC or API # (-eq C-133#

STICKERS, CODES, NUMBERS, ETC.

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

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 [illegible] IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE [illegible]

THIS WILL CERTIFY that the above transporter hauled the material represented by this Transporter Document to the above described location, and that it was accepted by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without moisture.

DRIVER

FACILITY REPRESENTATIVE

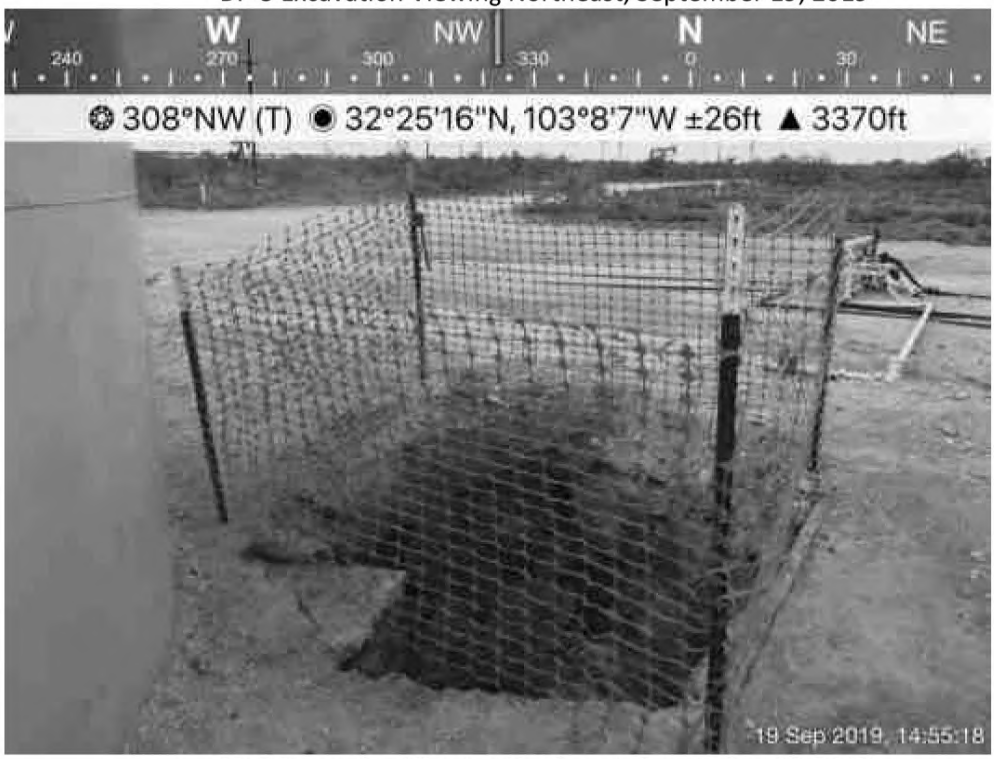
White - Transporter Canary - Destination Facility Pink - Generator

Sundance Services, Inc. - Confidential Information - Proprietary

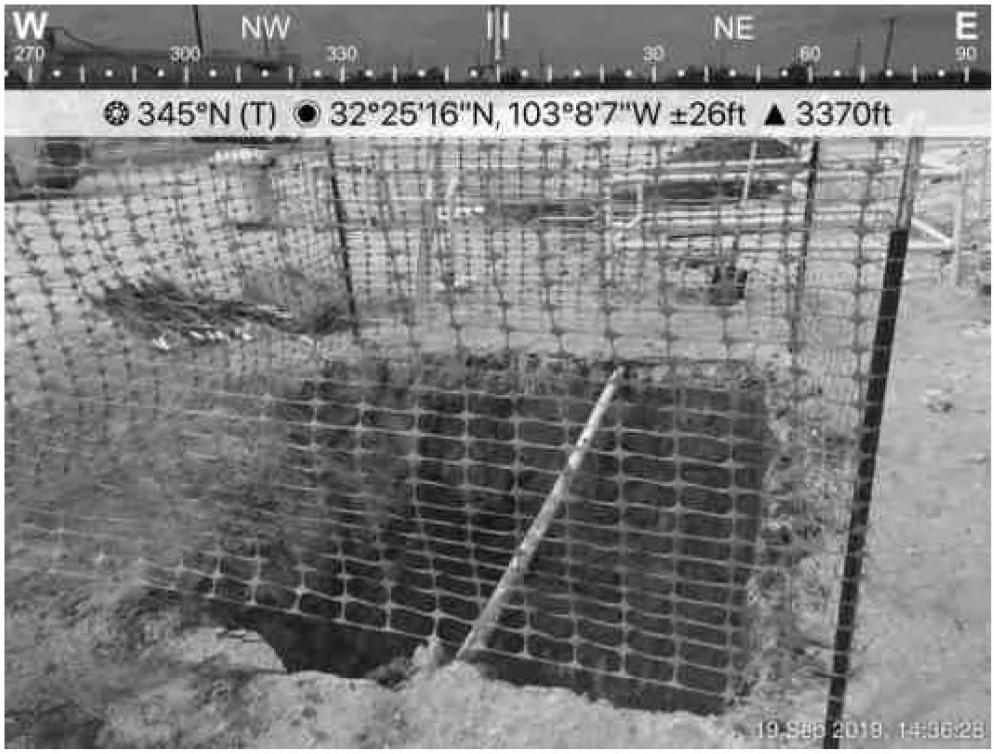
Appendix D

Photographs

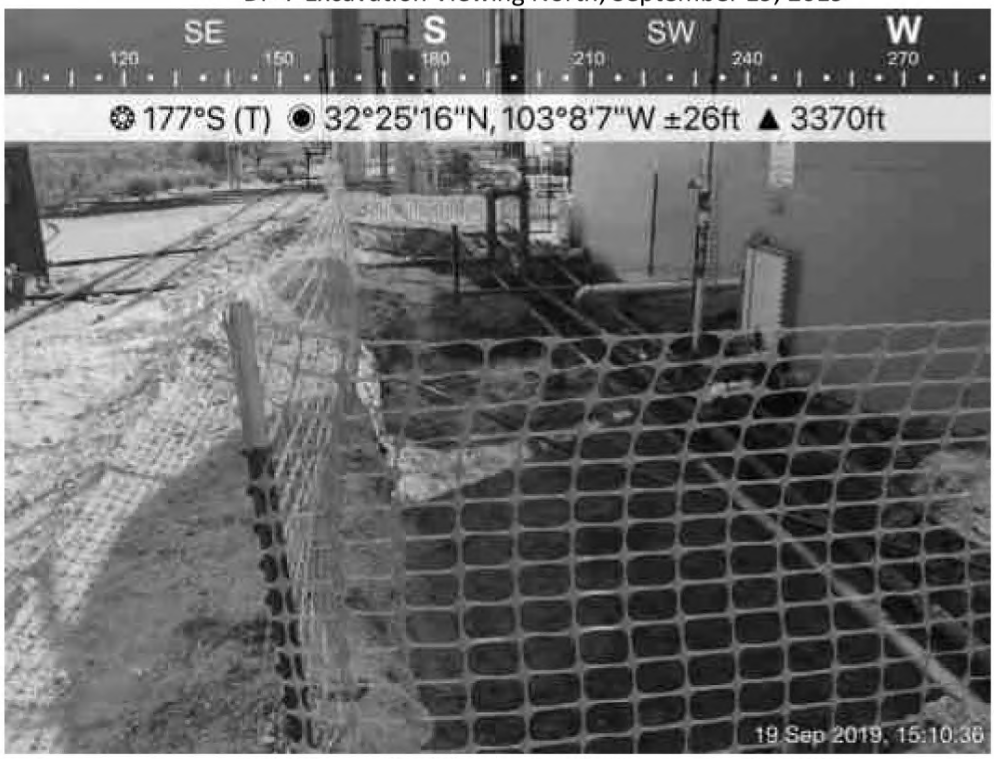
DP-5 Excavation Viewing Northeast, September 19, 2019



DP-6 Excavation Viewing Northwest, September 19, 2019



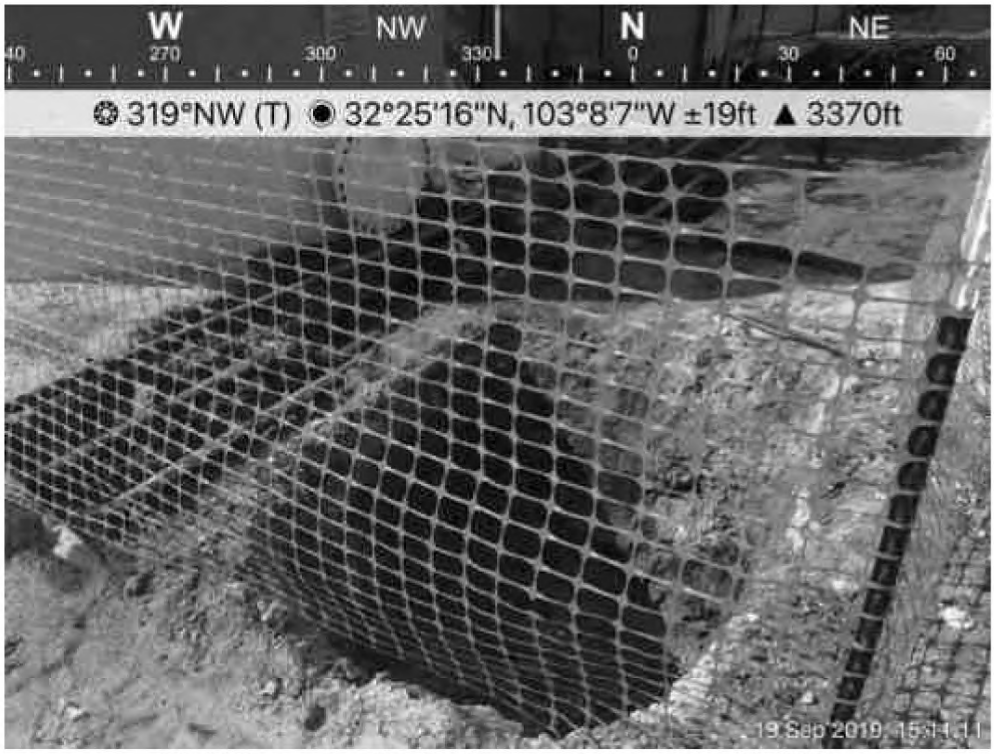
DP-7 Excavation Viewing North, September 19, 2019



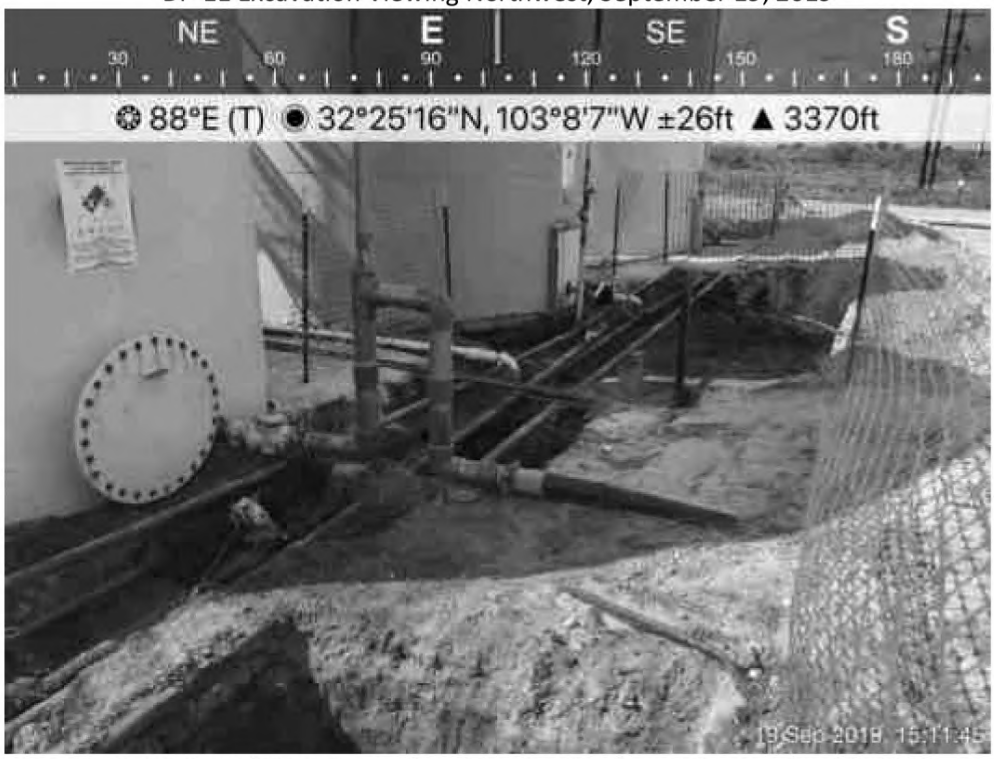
DP-8 Excavation Viewing South, September 19, 2019

DP- 9 Excavation Viewing Northeast, September 19, 2019

DP-10 Excavation Viewing Southwest, September 19, 2019



DP-11 Excavation Viewing Northwest, September 19, 2019



DP-11, DP-8, and DP-6 Excavations Viewing Northwest, September 19, 2019