

Incident ID	nRM2006451912
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>114.6</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager
Signature:  Date: 10/20/2020
email: HButler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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Printed Name: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager
Signature: _____ Date: _____
email: HButler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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Closure

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

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

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

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

Printed Name: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager

Signature: _____ Date: _____

email: HButler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

nRM2006451912
AMENDED CLOSURE REPORT
Cowtown South
Produced Water Spill
Otero County, New Mexico

Latitude: 32°42'13.33" North
Longitude: 104°7'18.30" West

LAI Project No. 19-0179-03

October 14, 2020

Prepared for:
Select Energy Services, LLC
5721 NW 132nd Street
Oklahoma City, OK 73142

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701



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



Robert Nelson
Sr. Geoscientist

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nRM2006451912
Amended Closure Report
Cowtown South Produced Water Release
October 14, 2020

1.0 INTRODUCTION

Larson & Associates Inc. (LAI) has prepared this amended closure report on behalf of Select Energy Services (Select) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water release at the Cowtown South (Site) located in Lot 3, Section 31, Township 18 South, Range 29 East in Otero County, New Mexico. The geodetic position is 32°42'13.33" N and 104°7'18.30" W. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release occurred on October 10, 2019, due to a leak in the water transfer line allowing for approximately 50 barrels (bbls) of produced water to be released into the nearby pasture. Approximately 30 bbls were recovered. The spill area measured approximately 5,451 square feet. The initial C-141 was submitted to OCD District office II in Artesia, New Mexico on March 4, 2020 and assigned incident number nRM2006451912. Appendix A presents the initial C-141.

On June 1, 2020, a report titled, "nRM2006451912, Closure Report, Cowtown South, Produced Water Spill, June 1, 2020" was submitted to the OCD requesting approval on the soil sample delineation and soil excavation. The OCD denied the report on September 16, 2020, due to a lack of groundwater data. The OCD requested that Select drill a borehole within 0.5 miles of the release and measure depth to groundwater after 72 hours of being drilled. Appendix B presents OCD communications.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,398 feet above mean sea level (msl);
- The topography slopes gently to the south;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as Berino-Dune land complex, 0 to 3 percent slopes, consisting of 0 to 17 inches of fine sandy loam sand underlain by 17 to 50 inches of sandy clay loam and 50 to 60 inches of loamy sand;
- The geology is the Eolian and piedmont deposits (Holocene to middle Pleistocene) – interlayered eolian sands and piedmont-slope deposits;
- Groundwater occurs in the Ogallala formation at approximately 180 feet below ground surface (bgs)(2016);
- According to the United States Geologic Survey (USGS) the nearest groundwater well is located in Unit A (SE/4, NE/4), Section 29, Township 18 South, Range 29 East, approximately 2.06 miles or 10,859 feet northeast of 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

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Amended Closure Report
Cowtown South Produced Water Release
October 14, 2020

- TPH 2,500 mg/Kg
- Chloride 20,000 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On October 11, 2019, LAI personnel collected soil samples from five (5) locations within the spill area (HA-1 through HA-5) and four (4) locations outside of the spill area (HA-6 through HA-9) in each cardinal direction (north, east, south, west) using a stainless steel hand auger. The samples were collected at a depth of approximately 0.5 and 1 foot below ground surface (bgs). The soil samples were delivered under preservation and chain of custody to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The upper sample from each location was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH) by EPA SW-846 Methods 8021B and 8015M, respectively. All samples were analyzed for chloride by EPA Method 300. Benzene, BTEX, and TPH were reported below the OCD delineation limits of 10 mg/Kg, 50 mg/Kg, and 100 mg/Kg respectively, in Table 1 (19.15.29 NMAC). Chloride reported above the delineation limit of 600 mg/Kg in the following samples:

HA-2, 0.5 feet bgs (671 mg/Kg)	HA-4, 1 foot bgs (8,070 mg/Kg)
HA-3, 0.5 feet bgs (7,210 mg/Kg)	HA-5, 0.5 feet bgs (7,080 mg/Kg)
HA-3, 1 foot bgs (7,560 mg/Kg)	HA-5, 1 foot bgs (6,650 mg/Kg)
HA-4, 0.5 feet bgs (7,680 mg/Kg)	HA-8, 0.5 feet bgs (5,070 mg/Kg)

On November 4, 2019, LAI personnel utilized a direct push Geoprobe® 7822 DT to collect soil samples at six (6) locations (HA-1 through HA-5 and HA-8). The samples were collected in 5-foot intervals, depending on subsurface conditions. The samples were analyzed for chloride by EPA Method 300. Laboratory analysis reported chloride concentrations above 600 mg/Kg in the following samples.

HA-3, 5 feet bgs (7,080 mg/Kg)	HA-5, 5 feet bgs (7,560 mg/Kg)
HA-4, 5 feet bgs (13,800 mg/Kg)	HA-5, 10 feet bgs (6,830 mg/Kg)
HA-4, 8 feet bgs (7,000 mg/Kg)	

Table 1 presents the delineation soil sample analytical data summary. Figure 2 presents an aerial map with soil sample locations.

On October 8, 2020, Scarborough Drilling, Inc. (SDI), under LAI supervision, used an air rotary drilling rig to drill a boring for depth to groundwater determination. The boring (GWB-1) was drilled in an undisturbed area about 50 feet southeast of the Site to approximately 115 feet bgs. The boring was gauged with an electronic water level meter approximately 72 hours after drilling and was found dry at 114.6 feet bgs. The boring was plugged after gauging with bentonite chips and hydrated with potable water. Appendix C presents the soil boring log.

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Amended Closure Report
Cowtown South Produced Water Release
October 14, 2020

3.0 REMEDIATION

During December 2019 and January 2020, BDS Enterprises (BDS) used a backhoe to excavate soil from an area measuring about 6,103 square feet encompassing delineation samples HA-2 and HA-8 to a depth of approximately 2 feet bgs and HA-3 through HA-5 and to a depth of approximately 4.1 feet bgs.

On January 16 and January 22, 2020, LAI personnel collected forty-seven (47) five-point composite confirmation soil samples from the sidewalls (north, east, south, and west) and bottom of the excavation. The samples were delivered under preservation and chain of custody to PBEL and were analyzed for BTEX, TPH and chloride by EPA SW-846 Methods 8021B, 8015M and Method 300, respectively. All confirmation soil samples reported benzene, BTEX and TPH below the OCD remediation levels. Chloride reported above OCD remediation levels in the following confirmation samples.

2.3 Sidewall West, 0 – 2 feet bgs (998 mg/Kg)	2.12 Bottom, 2 feet bgs (2,590 mg/Kg)
2.4 Sidewall West, 0 – 2 feet bgs (2,980 mg/Kg)	2.13 Bottom, 2 feet bgs (5,310 mg/Kg)
2.6 Sidewall East, 0 – 2 feet bgs (1,030 mg/Kg)	2.14 Bottom, 2 feet bgs (2,400 mg/Kg)
2.7 Bottom, 2 feet bgs (4,250 mg/Kg)	2.15 Bottom, 2 feet bgs (3,060 mg/Kg)
2.9 Bottom, 2 feet bgs (5,190 mg/Kg)	2.16 Bottom, 2 feet bgs (2,110 mg/Kg)
2.11 Bottom, 2 feet bgs (2,350 mg/Kg)	4.2 Sidewall South, 0 – 4 feet bgs (5,570 mg/Kg)

In January and February 2020, BDS excavated an additional 2.1 feet of soil from the bottom around samples points (2.7, 2.9, and 2.11 through 2.16). Additionally, the sidewalls were excavated approximately 2 feet around samples points (2.3 through 2.6 and 4.2). On February 4, 2020, LAI personnel collected a confirmation soil samples from the aforementioned locations and laboratory analysis indicated BTEX, TPH, and chloride below the OCD remediation levels, except the chloride concentration in sample point 4.2 at (1,030 mg/Kg).

In February 2020, BDS excavated an additionally two feet from the sidewall of sample point 4.2. On February 27, 2020, LAI personnel collected a confirmation soil sample and laboratory analysis reported BTEX, TPH, and chloride below the OCD remediation levels. Approximately 836 cubic yards of soil were disposed at R360 Halfway, located south of US Highway 62/180 east of Carlsbad, New Mexico. Appendix D presents the waste manifests.

Nine (9) composite samples each of clean sand were collected from a nearby pit. BTEX and TPH were below the method reporting limits in the backfill composite samples and chloride was less 600 mg/Kg. Table 2 presents the confirmation soil analytical data summary. Figure 3 presents the excavations and confirmation sample locations. Appendix E presents laboratory reports. Appendix F presents photographs.

The excavations were backfilled up to 4 feet bgs with clean sand from a nearby landowner's pit. On March 27, 2020, LAI personnel seeded the backfilled areas with BLM Mix No 3.

4.0 CLOSURE REQUEST

Select Energy requests no further action for nRM2006451912.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Select Energy Services, Cowtown South Release
Otero County, New Mexico
N32° 42' 13.33" W104° 07' 18.30"

Sample ID	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)
RAL:										20,000
Hand Auger Soil Samples										
HA-1	0 - 0.5	10/11/2019	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	4.37
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	80.0
	5	11/4/2019	In-Situ	--	--	--	--	--	--	104.0
HA-2	0 - 0.5	10/11/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	671
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	240
	8	11/4/2019	In-Situ	--	--	--	--	--	--	6.07
HA-3	0 - 0.5	10/11/2019	In-Situ	<0.00110	<0.00660	<27.5	<27.5	<27.5	<27.5	7,210
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	7,560
	5	11/4/2019	In-Situ	--	--	--	--	--	--	7,080
HA-4	0 - 0.5	10/11/2019	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	7,680
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	8,070
	5	11/4/2019	In-Situ	--	--	--	--	--	--	13,800
	8	11/4/2019	In-Situ	--	--	--	--	--	--	7,000
HA-5	0 - 0.5	10/11/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	7,080
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	6,650
	5	11/4/2019	In-Situ	--	--	--	--	--	--	7,560
	10	11/4/2019	In-Situ	--	--	--	--	--	--	6,830
	15	11/4/2019	In-Situ	--	--	--	--	--	--	38

Table 1
Delineation Soil Sample Analytical Data Summary
Select Energy Services, Cowtown South Release
Otero County, New Mexico
N32° 42' 13.33" W104° 07' 18.30"

HA-6	0 - 0.5	10/11/2019	In-Situ	<0.00105	0.00631	<26.3	<26.3	<26.3	<26.3	8.45
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	6.66
HA-7	0 - 0.5	10/11/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	33.8
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	13.1
HA-8	0 - 0.5	10/11/2019	In-Situ	<0.00105	0.00631	<26.3	<26.3	<26.3	<26.3	5,070
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	25.3
	5	11/4/2019	In-Situ	--	--	--	--	--	--	15.20
	10	11/4/2019	In-Situ	--	--	--	--	--	--	11.30
	15	11/4/2019	In-Situ	--	--	--	--	--	--	3.97
HA-9	0 - 0.5	10/11/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	47.5
	0.5 - 1	10/11/2019	In-Situ	--	--	--	--	--	--	23.2

Notes: Laboratory analysis performed by Permian Basin Environmental Lab (PBEL), Midland, Texas by EPA Method 300 (chloride).

Depth in feet below ground surface (bgs)

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

Bold and highlighted indicates that analyte was detected above the OCD Delineation limit (600 mg/Kg)

Table 2

Confirmation Soil Sample Analytical Data Summary
Apache Cowtown South, Select Energy Produced Water Spill
Otero County, New Mexico
N32° 42' 13.33" W104° 7' 18.30"

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	
RAL:					10	50	100/2,500					600/20,000
2.1	Sidewall North	0 - 2	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	47.1	
2.2	Sidewall North	0 -2	1/16/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	8.74	
2.3	Sidewall West	0 -2	1/16/2020	Excavated	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	998.0	
		0 - 4	2/3/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	181	
2.4	Sidewall West	0 - 2	1/16/2020	Excavated	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	2,980.0	
		0 - 4	2/3/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	28.7	
2.5	Sidewall East	0 -2	1/16/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	487.0	
2.6	Sidewall East	0 -2	1/16/2020	Excavated	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	1,030.0	
		0 - 4	2/3/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	47.6	
2.7	Bottom	2	1/16/2020	Excavated	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	4,250.0	
		4.1	2/4/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	178.0	
2.8	Bottom	2	1/16/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	59.0	
		4.1	2/4/2020	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	55.9	
2.9	Bottom	2	1/16/2020	Excavated	<0.00109	<0.00653	<27.2	<27.2	<27.2	<27.2	5,190.0	
		4.1	2/4/2020	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	1,470.0	
2.10	Bottom	2	1/16/2020	Excavated	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	22.8	
		4.1	2/4/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	4,790.0	
2.11	Bottom	2	1/22/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	2,350.0	
		4.1	2/4/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	2,590.0	
2.12	Bottom	2	1/22/2020	Excavated	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	2,590.0	
		4.1	2/4/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	2,770.0	
2.13	Bottom	2	1/22/2020	Excavated	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	5,310.0	
		4.1	2/4/2020	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	2,980.0	
2.14	Bottom	2	1/22/2020	Excavated	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	2,400.0	
		4.1	2/4/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	3,980.0	
2.15	Bottom	2	1/22/2020	Excavated	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	3,060.0	
		4.1	2/4/2020	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	3,540.0	
2.16	Bottom	2	1/22/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	2,110.0	
		4.1	2/4/2020	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	3,730.0	
4.1	Sidewall South	0 - 4	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	64.8	

Table 2

Confirmation Soil Sample Analytical Data Summary
Apache Cowtown South, Select Energy Produced Water Spill
Otero County, New Mexico
N32° 42' 13.33" W104° 7' 18.30"

4.2	Sidewall South	0 - 4	1/16/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	5,570.0
		0 - 4	2/3/2020	Excavated	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	1,030.0
		0 - 4	2/27/2020	In-Situ	<0.00104	<0.00624	<26.0	34.6	28.5	63.1	17.4
4.3	Sidewall South	0 - 4	1/16/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	7.0
4.4	Sidewall South	0 - 4	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	9.43
4.5	Sidewall East	4.1	1/16/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	7.93
4.6	Sidewall East	4.1	1/16/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	13.6
4.7	Sidewall North	4.1	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	5.71
4.8	Sidewall North	4.1	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	9.01
4.9	Sidewall North	4.1	1/16/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	14.2
4.10	Sidewall North	4.1	1/16/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	10.9
4.11	Bottom	4.1	1/16/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	5,720.0
4.12	Bottom	4.1	1/16/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	4,460.0
4.13	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	6,400.0
4.14	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5,960.0
4.15	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5,510.0
4.16	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	6,400.0
4.17	Bottom	4.1	1/16/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	2,080.0
4.18	Bottom	4.1	1/16/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	4,090.0
4.19	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	6,480
4.20	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5,470.0
4.21	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	16.2
4.22	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5,500.0
4.23	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5,740.0
4.24	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	4,920.0
4.25	Bottom	4.1	1/16/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	4,860.0
4.26	Bottom	4.1	1/16/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	49.1
8.1	Sidewall East	(0-2)	1/22/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	34.5
8.2	Sidewall West	(0-2)	1/22/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	13.5
8.3	Bottom	2	1/22/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	14.2
8.4	Bottom	2	1/22/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	9.55
8.5	Bottom	2	1/22/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	17.6
Backfill Sand 1			3/6/2020	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	4.01
Backfill Sand 2			3/6/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	3.02
Backfill Sand 3			3/6/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	6.47

Table 2
Confirmation Soil Sample Analytical Data Summary
Apache Cowtown South, Select Energy Produced Water Spill
Otero County, New Mexico
N32° 42' 13.33" W104° 7' 18.30"

Backfill Sand 4		3/6/2020	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	14.8
Backfill Sand 5		3/6/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	5.99
Backfill 6		3/6/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	4.82
Backfill 7		3/6/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	5.28
Backfill 8		3/6/2020	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	3.56
Backfill 9		3/6/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	6.22

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

Depth in feet below ground surface (bgs)

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

Figures

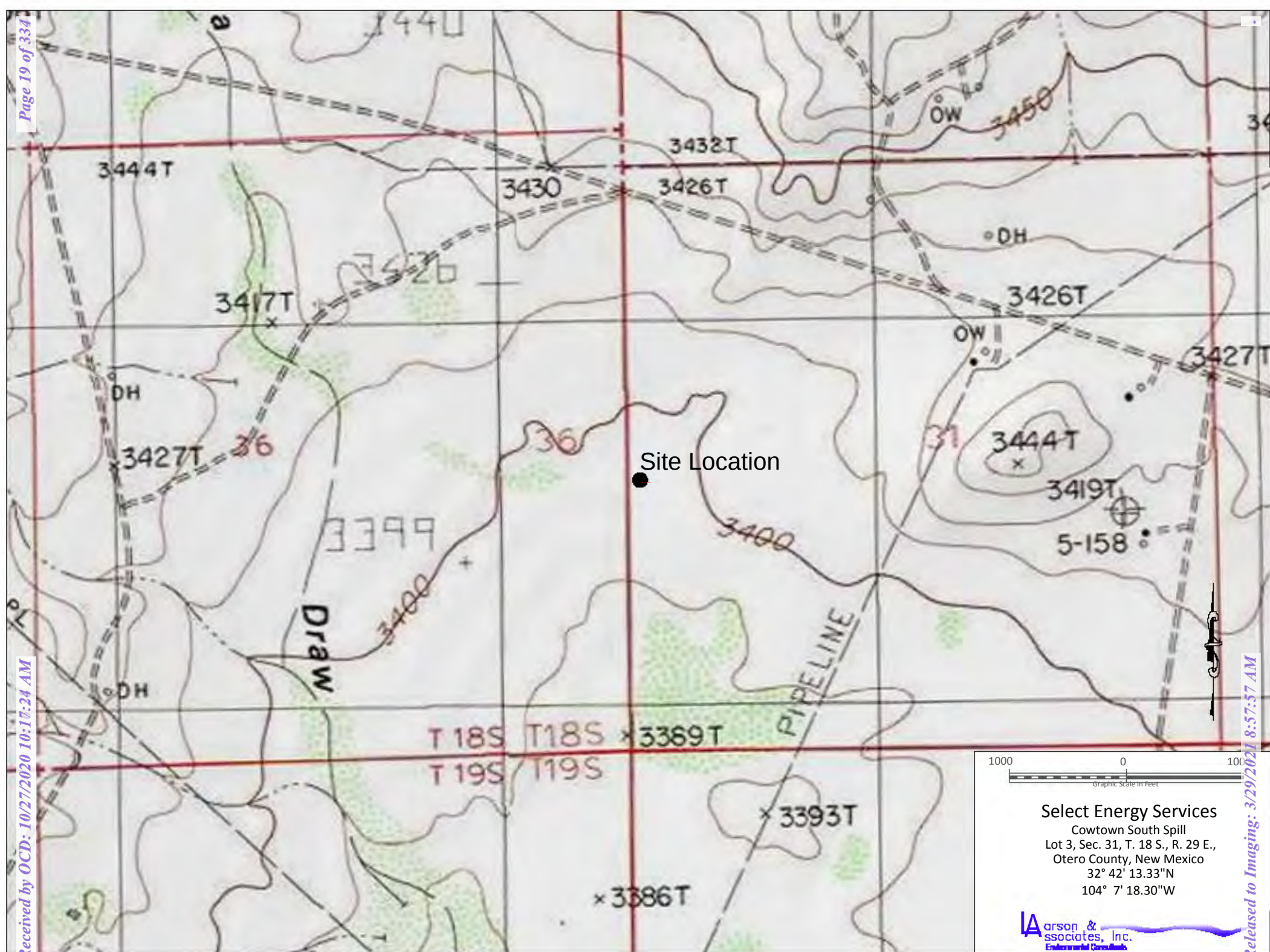
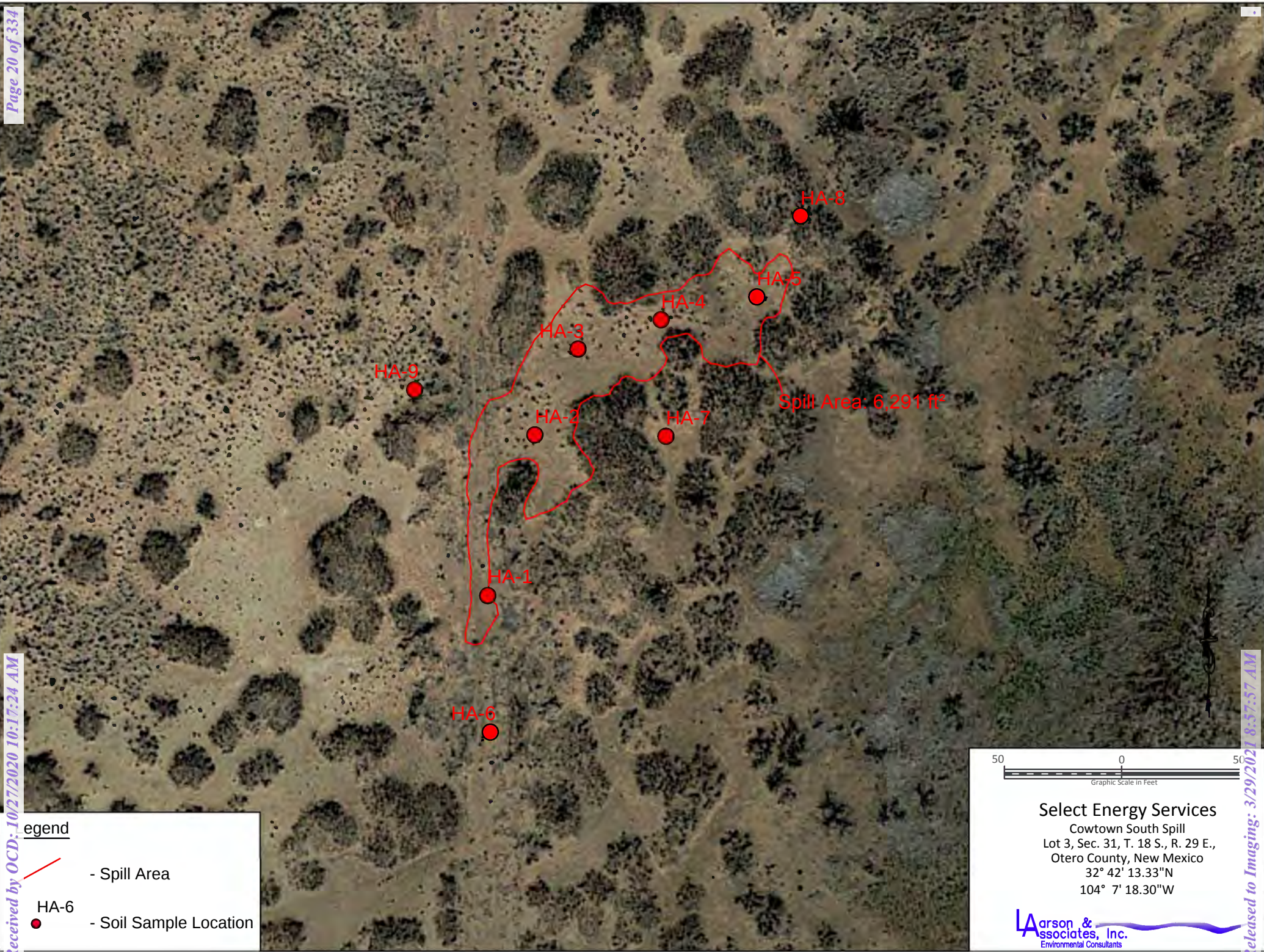


Figure 1 - Topographic Map



Legend

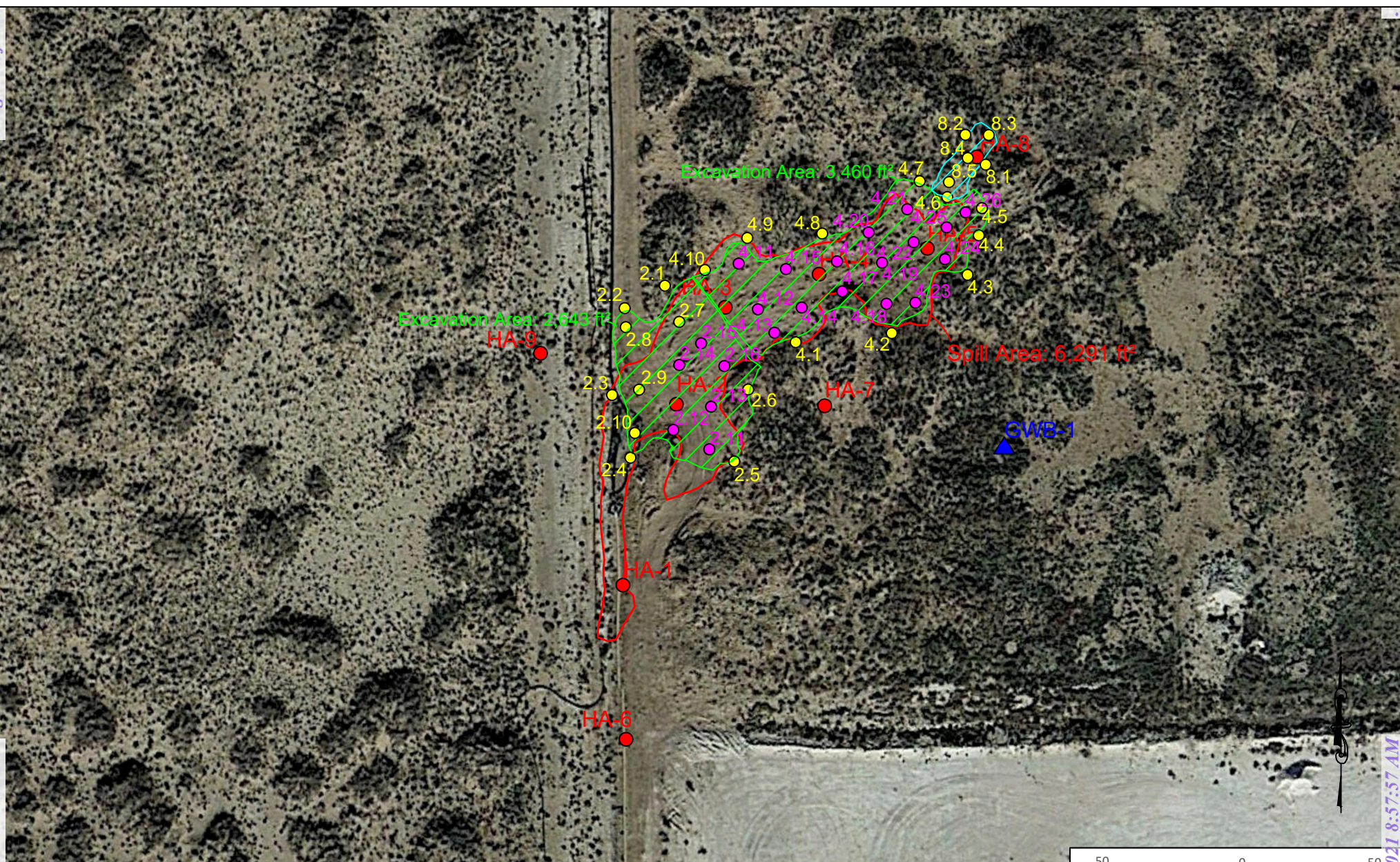
-  - Spill Area
-  - Soil Sample Location

50 0 50
Graphic Scale in Feet

Select Energy Services
Cowtown South Spill
Lot 3, Sec. 31, T. 18 S., R. 29 E.,
Otero County, New Mexico
32° 42' 13.33"N
104° 7' 18.30"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map Showing Spill Area and Soil Sample Locations



Legend

	- Spill Area		- Confirmation Sample Location
	- Soil Sample Location		- Confirmation Sample Location(4.1ft)
	- Excavation Location: 2'		- Temporary Monitoring Well
	- Excavation Location: 4'		

50 0 50
Graphic Scale in Feet

Select Energy Services
 Cowtown South Spill
 Lot 3, Sec. 31, T. 18 S., R. 29 E.,
 Otero County, New Mexico
 32° 42' 13.33"N
 104° 7' 18.30"W

Larson & Associates, Inc.
 Environmental Consultants

Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Samples

Appendix A

Initial C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Select Energy Services, LLC	OGRID 289068
Contact Name Halie Butler	Contact Telephone 281-467-3153
Contact email HButler@selectenergyservices.com	Incident # (assigned by OCD)
Contact mailing address 5721 NW 132nd Street, Oklahoma City, OK 73142	

Location of Release Source

Latitude 32.70370° N Longitude -104.12170° W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cowtown South	Site Type Produced Water Transfer Line
Date Release Discovered 10/10/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
Lot 3	31	18S	29E	Otero

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 50 bbls	Volume Recovered (bbls) 30 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A leak formed in the water transfer line.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 bbls of liquid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Due to confusion on reporting responsibilities, the release inadvertently went unreported.	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Halie Butler</u>	Title: <u>Sr. Corporate Compliance and Environmental Manager</u>
Signature: _____	Date: <u>3/4/2020</u>
email: <u>HButler@selectenergyservices.com</u>	Telephone: <u>281-467-3153</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Appendix B
OCD Communications

From: [Halie Butler](#)
To: [Robert Nelson](#)
Subject: Fwd: Closure Denied - Select Energy - Cowtown South - (Incident #NRM2006451912)
Date: Wednesday, September 16, 2020 4:56:21 PM
Attachments: [Closure Denied - Select Energy - Cowtown South.pdf](#)
[ATT00001.htm](#)

Hi Robert, see below on this rejection. What do you think?

Halie Butler

Sr. Corporate Compliance and Environmental Manager

[5721 NW 132](#)nd Street | Oklahoma City, OK 73142

M: [281.467.3153](#)

hbutler@selectenergyservices.com

www.selectenergyservices.com

CONFIDENTIALITY NOTICE: *Information contained in this email and/or attachments to it may be confidential and legally privileged. This information is intended only for the use of the individual to whom this email is addressed. If you are not that person, you are hereby notified that any use, disclosure, printing, or distribution of any of the information contained herein is strictly PROHIBITED. If you have received this email in error, please notify the sender and delete this email and any attachments immediately.*

Begin forwarded message:

From: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>
Date: September 16, 2020 at 4:20:49 PM CDT
To: Halie Butler <HButler@selectenergy.com>
Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Venegas, Victoria, EMNRD" <Victoria.Venegas@state.nm.us>, "Eads, Cristina, EMNRD" <Cristina.Eads@state.nm.us>, "BLM SPILL (blm_nm_cfo_spill@blm.gov)" <blm_nm_cfo_spill@blm.gov>
Subject: Closure Denied - Select Energy - Cowtown South - (Incident #NRM2006451912)

External Email: Use caution with links & attachments. The sender of this email is **robert.hamlet@state.nm.us**

Halie,

We have received your closure report and final C-141 for **Incident #NRM2006451912 Cowtown South**, thank you. This closure is denied.

- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

- If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.
- Please let us know if you drill a borehole to make a depth to groundwater determination.
- Otherwise, please continue to horizontally/vertically delineate sample points to 600 mg/kg for chlorides.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@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 groundwater, 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, or local laws and/or regulations.

Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:15 MST Finish: 11:30 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS				
					PPM X _____										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING			
					2	4	6	8	10	12	14	16	18									
	0	Sand, 5YR 4/4, Reddish Brown, Fine to Very Fine Quartz Sand, Sub Rounded to Well Rounded,	SW																			
	5	Well Sorted, Quartz Rich with Potassium Feldspar @ ≤15% 10YR 7/3, Very Pale Brown,																				
	10	Sub Angular to Sub Rounded, Fine to Very Fine Quartz Sand, Moderately Sorted, Quartz Rich																				
	15	Gravelly Sand, 5YR 6/6, Reddish Yellow, Very Fine with Gravel ≤2cm, Poorly Sorted,	SP																			
	20	Well Rounded, Angular to Sub Angular gravel, Oxidized, Quartz Rich																				
	25	Depth @24' Lithology remains Constant but Becomes Reduced to 5YR 8/3, Pink																				
	30	Depth @28' Color Change to 10YR 8/4, Very Pale Brown																				
	35	5YR 6/8, Reddish Yellow (13'-35' Oscilating between Oxidized and Reduced Zoars Staying True to Lithology)																				
	40																					
	45	5YR 6/8, Reddish Yellow	SP																			
	50																					
	55																					
	60	Decrease in Gravel Present & Size, Lithology & Color ...																				

☐ ONE CONTINUOUS AUGER SAMPLER

WATER TABLE (TIME OF BORING)

☐ STANDARD PENETRATION TEST

LABORATORY TEST LOCATION

☐ UNDISTURBED SAMPLE

PENETROMETER (TONS/ SQ. FT)

WATER TABLE (24 HRS)

NO RECOVERY

JOB NUMBER : Select Energy/ 19-0179-03HOLE DIAMETER : 5"LOCATION : Cowtown South SpillLAI GEOLOGIST : T. JacksonDRILLING CONTRACTOR : SDCDRILLING METHOD : Air Rotary

Released to Imaging: 3/29/2021 8:57:57 AM

Appendix D
Waste Manifests

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260



RECEIVED

FEB 26 2020

313578
579

Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

Invoice

Date
2/25/2020

Invoice #
1345

P.O. No.	Terms	Project
Louie Barnes	Net 30	Cimarex

Description	Quantity	Rate	Project	Amount
Cimarex - Burgoo King pad Extention 2-19-20 Truck# 001 I.H.S 20yds Loads - 9 Field ticket # 1001	13	85.00	Belly Dump	1,105.00T
Cimarex - Burgoo King pad Extention 2-19-20 Truck # Tomahawk trucking 20yds Loads - 8 Field ticket # 1803	13	85.00	Belly Dump	1,105.00T
Cimarex - Burgoo King pad Extention 2-19-20 Truck # AM Transport 20yds Loads - 9 Field ticket # 144	13	85.00	Belly Dump	1,105.00T
Cimarex - Burgoo King pad Extention 2-19-20 Truck # StarCo 20yds Loads - 8 Field ticket # 487	13	85.00	Belly Dump	1,105.00T
Cimarex - Burgoo King pad Extention 2-19-20 Truck # StarCo 20yds Loads - 8 Field ticket # 677 tax exempt	13	85.00 0.00%	Belly Dump	1,105.00T 0.00
			Total	\$5,525.00

ENTERED
MAR 09 2020

Iron Horse Services, LLC
418 W Avenue C
Lovington, NM 88260



Phone: (806) 632-5616
ironhorseservicesllc@gmail.com

COMPANY NAME: Bos Enterprise

OIL COMPANY NAME: Cimare

CONTRACT / JOB NUMBER		FIELD ORDER NUMBER	01001
A.F.E. NUMBER		DATE	02-19-20
ORDERED BY			

DRIVER NAME

Luis Herrera

LEASE

Burgoo King Pad Extension

WELL OR RIG NO.

TRUCK OR UNIT NO.

001

AMOUNT HAULED

TIME OUT

AM PM

TIME IN

AM PM

HOURS CHARGED

DESCRIPTION

RATE

AMOUNT

Loads

Material

WT IN

f/w bbls

b/w bbls

p/w bbls

Flowback

City Water

KCL gal

Packer Fluid

Solids bbl

OBM

yards

TOP GAUGE

BOTTOM GAUGE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

TAX

NET TOTAL

TOTAL HOURS CHARGED: 13

OPERATOR OR DRIVER

FOREMAN / SUPERVISOR

x Luis Herrera

x J. B. [Signature]

Thank You!

301 W. Rojo
Hobbs, NM
88240



Tomahawk Trucking, LLC

Vacuum Truck - Belly Dump



Cell: (575) 441-0725
Office: (575) 393-4246
Fax: (575) 393-0416

No. 1803

CUSTOMER INFO.

NAME: CIMARRON DATE: 2-19-20

LOCATION: Burgess King Facility Road

DRIVER NAME: Alberto Antela UNIT #: 47 TOTAL HOURS: 13

EQUIPMENT USED: BELLY DUMP VACUUM TRUCK BELLY DUMP

DESCRIPTION OF WORK: 8 loads

Customer Representative Signature		UNIT PRICE	TOTAL FROM TICKET	
	VACUUM TRUCK	\$	SALES TAX	
	BELLY DUMP	\$	GRAND TOTAL	

SUPERIOR PRINTING SERVICE, INC.

0144

AM Transport LLC

105 E Washington

Lovington, NM 88260

Cell (575) 399-4208 Office (575) 749-7547

Date: 2-19-20Driver: Guillermo MartinezTruck # 4Company: CimarronLocation: Burgo King Pad Extension

Location For: _____

Job/PO/AFE # _____

Material(s) Hauled: BaseLoads # 1111

Quantity: _____

Start Time: _____ End Time: _____ Total Hours: 13

Work Performed: _____

Approved By: J. J. [Signature]



STARCO
SOLAR CO. INC.

CONTRACT / JOB NUMBER		FIELD ORDER NUMBER	0487
A.F.E. NUMBER		DATE	02-29-20
ORDERED BY			

Thank You!

x J. K. A.



STARCO

CONTRACT / JOB NUMBER		FIELD ORDER NUMBER	0677
A/E NUMBER		DATE	02-19-20
ORDERED BY			

[illegible]

TOTAL HOURS CHARGED: 13

OPERATOR OR DRIVER

FOREMAN / SUPERVISOR

x John Edgar x S. B. B.

WAR		
NET TOTAL		

Thank You!

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260

RECEIVED
MAR 04 2020



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

Invoice

Date
3/2/2020

Invoice #
1346

313577
RECEIVED
MAR 06 2020

P.O. No.	Terms	Project
Louie Barnes	Net 30	Cowtown south

Feb.

Description	Quantity	Rate	Project	Amount
Select Energy Cowtown South Truck # 02 Reyes 12yd Loads-1 Field ticket # 094125 R360 Manifest # 444585	6	75.00	Dump Truck	450.00T
Select Energy Cowtown South Truck # 1 Montana 12yd Loads-1 Field ticket # 273 R360 Manifest # 273 Ticket # 700-111-8244	6	75.00	Dump Truck	450.00T
Select Energy Cowtown South Truck # 2 Montana 12yd Loads-1 Field ticket # 272 R360 Manifest # 272 Ticket # 700-111-8245 tax exempt	6	75.00	Dump Truck	450.00T
		0.00%		0.00
			Total	\$1,350.00

ENTERED
MAR 09 2020

094125

SOLD TO Iron Horse Services LLC		SHIP TO L-R Trucking	
ADDRESS 418 west Ave C		ADDRESS P.O. Box 2393	
CITY, STATE, ZIP Lovington NM 88260		CITY, STATE, ZIP Hobbs NM 88241	
CUSTOMER ORDER NO.	SOLD BY	TERMS	F.O.B.
			2-27-20

ORDERED	SHIPPED	DESCRIPTION	PRICE	UNIT	AMOUNT
		Dump Truck # 02			
		Hauled (1) Loads of Cont Soil			
		From Location to R360			
		6 Hours			
Company Lease		Select Energy Cowntown South			
		Donald Surina			

ИД «Адамс» 6040

09-1



Permian Basin

Customer: SELECT ENERGY SERVICES
 Customer #: CRI5255
 Ordered by: RICK FOUCH
 AFE #:
 PO #:
 Manifest #: 444585
 Manif. Date: 2/27/2020
 Hauler: LR TRUCKING
 Driver: LUIS
 Truck #: 02
 Card #
 Job Ref #

Ticket #: 700-1118249
 Bid #: Walk-in Bid
 Date: 2/27/2020
 Generator: SELECT ENERGY SERVICES
 Generator #:
 Well Ser. #: 999908
 Well Name: COWTOWN SOUTH
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	12.00	yards
Lab Analysis:	Cell	pH
	10	0.00
	Cl	Cond.
	0.00	0.00
	%Solids	TDS
	0	
	PCI/GM	MR/HR
		H2S
	% Oil	Weight
	0	

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Luis Reyes

U

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: 2/27/20

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B I L L T O	SELECT ENERGY	CONTRACT NUMBER	FIELD ORDER NUMBER 273
		A.F.E. NUMBER	DATE 02-27-20
		REQ. OR PURCHASE ORDER NUMBER	ORDERED BY

DELIVERED FROM Rick Foxch		TO 360	
LOCATION Cow Town South			WELL OR RIG NO.
TRUCK OR UNIT NO. #1	CAPACITY 12 Yrs	AMOUNT HAULED	DELIVERED BY
DESCRIPTION		☐ HR. ☐ BBL.	RATE
12 Yards from Contaminated		Hrs.	
		bbls	
		#KCL	
6 hours		Disp	
		Disp	
		Loads	
		Yards	
		Other	
TOP GAUGE BOTTOM GAUGE		TAX	
HIGHWAY MILES		NET TOTAL	
LOADED	UNLOADED	TERMS:	

AUTHORIZED BY:

OPERATOR OR DRIVER
Beir Ramirez
 SUPERIOR PRINTING SERVICE, INC.

X *Douglas Ewing*

Thank You



Permian Basin

Customer: SELECT ENERGY SERVICES
 Customer #: CRI5255
 Ordered by: RICK FOUCH
 AFE #:
 PO #:
 Manifest #: 273
 Manif. Date: 2/27/2020
 Hauler: MONTANA TRUCKING, LLC
 Driver: RAMERIEZ
 Truck #: 01
 Card #
 Job Ref #

Ticket #: 700-1118244
 Bid #: Walk-in Bid
 Date: 2/27/2020
 Generator: SELECT ENERGY SERVICES
 Generator #:
 Well Ser. #: 999908
 Well Name: COWTOWN SOUTH
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

12.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A01DI0B

2/27/2020 1:25:54PM

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B I L L T O	SELECT ENERGY	CONTRACT NUMBER	FIELD ORDER NUMBER 272
		A.F.E. NUMBER	DATE 02-27-20
		REQ. OR PURCHASE ORDER NUMBER	ORDERED BY

DELIVERED FROM Rick Leach		TO 360	
LOCATION Cow Town South			WELL OR RIG NO.
TRUCK OR UNIT NO. #3	CAPACITY 12 YRS	AMOUNT HAULED	TIME OUT AM PM
DESCRIPTION		TIME IN AM PM	HOURS CHGD.
12 Yards from Contaminado		0 HR. 0 BBL.	RATE
		Hrs.	AMOUNT
		bbls	
		#KCL	
6 Hours		Disp	
		Disp	
		Loads	
		Yards	
		Other	
TOP GAUGE	BOTTOM GAUGE		
HIGHWAY MILES		TAX	
LOADED	UNLOADED	NET TOTAL	

TERMS:

AUTHORIZED BY:

OPERATOR OR DRIVER
Benito Ramirez
SUPERIOR PRINTING SERVICE, INC.

x Douglas Ewing

Thank You

R360ENVIRONMENTAL
SOLUTIONS

Permian Basin

Customer: SELECT ENERGY SERVICES
 Customer #: CRI5255
 Ordered by: RICK FOUCH
 AFE #:
 PO #:
 Manifest #: 272
 Manif. Date: 2/27/2020
 Hauler: MONTANA TRUCKING, LLC
 Driver: BENITO
 Truck #: 2
 Card #
 Job Ref #

Ticket #: 700-1118245
 Bid #: Walk-in Bid
 Date: 2/27/2020
 Generator: SELECT ENERGY SERVICES
 Generator #:
 Well Ser. #: 999908
 Well Name: COWTOWN SOUTH
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

12.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	10	0.00	0.00	0.00	0					0	

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260

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MAR 18 2020



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

313576
577
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MAR 18 2020

Invoice

Date 3/10/2020 Invoice # 1354

P.O. No.	Terms	Project
Brent Wilson	Net 30	Cowtown South

Description	Quantity	Rate	Project	Amount
Select Energy - Cowtown South 3-9-20 Truck # 3 Montana Loads -16 Field Ticket # 477	11	75.00	Dump Truck	825.00T
Select Energy - Cowtown South 3-9-20 Truck # 1 Montana Loads -16 Field Ticket # 477 tax exempt	11	75.00	Dump Truck	825.00T
		0.00%		0.00
Total				\$1,650.00

APR 02 2020

Montana Trucking, LLC			
1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630			
BILL TO	BDS Enterprises		FIELD ORDER NUMBER 0477
			DATE 03/9/2020
			ORDERED BY
		CONTRACT NUMBER	
		A.F.E. NUMBER	
		REQ. OR PURCHASE ORDER NUMBER	

DELIVERED FROM		TO									
LOCATION Select Cowntown South										WELL OR RIG NO.	
TRUCK OR UNIT NO. 3	CAPACITY 12	AMOUNT HAULED	TIME OUT	AM PM	TIME IN	AM PM	HOURS CHGD.	DELIVERED BY			
DESCRIPTION						☐ HR.	☐ BBL.	RATE	AMOUNT		
✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓						Hrs.					
✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓✓						bbls					
11 Hours						#KCL					
						Disp					
						Disp					
						Loads					
						Yards					
						Other					
TOP GAUGE		BOTTOM GAUGE									
HIGHWAY MILES											
LOADED		UNLOADED									
TERMS:								TAX			
								NET TOTAL			

OPERATOR OR DRIVER
 Ernesto Aguilar x Douglas Enning
 SUPERIOR PRINTING SERVICE, INC.

AUTHORIZED BY:

Thank You

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B I L L T O	<i>BDS Enterprises</i>	CONTRACT NUMBER		FIELD ORDER NUMBER	0577
		A.F.E. NUMBER		DATE	03-09-20
		REQ. OR PURCHASE ORDER NUMBER		ORDERED BY	

DELIVERED FROM		TO									
LOCATION										WELL OR RIG NO.	
<i>Select COWTOWN south</i>											
TRUCK OR UNIT NO.	CAPACITY	AMOUNT HAULED	TIME OUT	AM PM	TIME IN	AM PM	HOURS CHGD.	DELIVERED BY			
<i>#1</i>	<i>12 Tn</i>										
DESCRIPTION						☐ HR.	☐ BBL.	RATE	AMOUNT		
<i>1111111111</i>							Hrs.				
							bbls				
							#KCL				
<i>11 Hours</i>							Disp				
							Disp				
							Loads				
							Yards				
							Other				
TOP GAUGE		BOTTOM GAUGE									
HIGHWAY MILES											
LOADED		UNLOADED									
				TERMS:				TAX			
								NET TOTAL			

OPERATOR OR DRIVER
Berto Ramirez
 SUPERIOR PRINTING SERVICE, INC.

AUTHORIZED BY:

x

*Douglas Loring**Thank You*

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260

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MAR 18 2020

Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

313576
577
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Invoice

Date 3/10/2020 Invoice # 1355

P.O. No.	Terms	Project
Brent Wilson	Net 30	Cowtown South

Description	Quantity	Rate	Project	Amount
Select Energy - Cowtown South 3-10-20 Truck # J53 JTS Trucking Loads -6 Field Ticket # 247473	5	75.00	Dump Truck	375.00T
Select Energy - Cowtown South 3-10-20 Truck # J54 JTS Trucking Loads -6 Field Ticket # 440120	5	75.00	Dump Truck	375.00T
Select Energy - Cowtown South 3-10-20 Truck # 3 Montana Trucking Loads -5 Field Ticket # 478	5	75.00	Dump Truck	375.00T
Select Energy - Cowtown South 3-10-20 Truck # 8 Perazas Transport Loads -3 Field Ticket # 1392	5	75.00	Dump Truck	375.00T
Select Energy - Cowtown South 3-10-20 Truck # 9 Perazas Transport Loads -3 Field Ticket # 1391 tax exempt	5	75.00 0.00%	Dump Truck	375.00T 0.00
			Total	\$1.875.00

ENTERED
APR 07 2020

[Handwritten signature]

440120

SOLD TO		ADDRESS		CITY, STATE, ZIP		CUSTOMER ORDER NO.		SOLD BY		TERMS		DATE	
Iron Horse Services LLC		418 W Ave C		Longton NM 88260						T54		3-10-20	
SHIP TO		ADDRESS		CITY, STATE, ZIP						FOUR		DATE	
JTS TRUCKING - Jesus Sepulveda		P.O. Box 2633 Hobbs, NM 88241		575 3308194									
ORDERED		SHIPPED		DESCRIPTION		PRICE		UNIT		AMOUNT			
3-10-20				Company: BBS Extra-Prices									
				Least: 45¢ per cwt Cow Town South									
				Loads: 2									
				Hours: 5 Hours									
				Tougher Every									

Montana Trucking, LLC 1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630															
B I L L T O	BDS Enterprises						CONTRACT NUMBER				FIELD ORDER NUMBER	0478			
							A.F.E. NUMBER				DATE		03/10/2020		
							REQ. OR PURCHASE ORDER NUMBER				ORDERED BY				
DELIVERED FROM						TO									
LOCATION						Select your town south		WELL OR RIG NO.							
TRUCK OR UNIT NO.		CAPACITY		AMOUNT HAULED		TIME OUT		AM PM		TIME IN		AM PM	HOURS CHGD.	DELIVERED BY	
3		12													
✓✓✓✓ 5 hours						DESCRIPTION		○ HR.		○ BBL.		RATE		AMOUNT	
								Hrs.							
								bbls							
								#KCL							
								Disp							
								Disp							
								Loads							
								Yards							
								Other							
						TOP GAUGE		BOTTOM GAUGE							
HIGHWAY MILES															
LOADED		UNLOADED													
TERMS:												TAX			
												NET TOTAL			

OPERATOR OR DRIVER
Ernesto Aguilar
 SUPERIOR PRINTING SERVICE, INC.

AUTHORIZED BY:
Jasper Ewing

Thank You

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03/10/20**INVOICE**
1392Company BDS EnterprisesLocation Canine Pit - CO-407

Deliver to _____

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
Job #		PO #		

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	V # 8
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
5 Hours	
3 loads	
lease = Street Law town South	
Driver = Evarado	

Work Performed By _____

Company Man Signature

Douglas King

PERAZA'S TRANSPORT, LLC

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date

03/10/20**INVOICE
1391**

Company

Bds Enterprises

Location

Caliente Pit - CO-407

Deliver to

PERAZA

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
Job #		PO #		

EQUIPMENT PROVIDED BY:

	#
Flatbed	
Belly Dump	
Dump Truck	<u>✓ # 9</u>
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipa Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
<u>5 hours Hours</u>	
<u>3 loads.</u>	
<u>lease = Select + Cowtown south</u>	
<u>Driver = Jesus Madero.</u>	

Work Performed By

Company Man Signature

Douglas Ewing

SUPERIOR PRINTING SERVICE, INC.

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260

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 MAR 18 2020



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

313576
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Invoice

Date 3/10/2020 **Invoice #** 1356

P.O. No.	Terms	Project
Brent Wilson	Net 30	Cowtown North

Description	Quantity	Rate	Project	Amount
Select Energy - Cowtown North 3-10-20 Truck # J53 JTS Trucking Loads -6 Field Ticket # 247474	8	75.00	Dump Truck	600.00T
Select Energy - Cowtown South 3-10-20 Truck # J54 JTS Trucking Loads -6 Field Ticket # 440121	8	75.00	Dump Truck	600.00T
Select Energy - Cowtown South 3-10-20 Truck # 3 Montana Trucking Loads -6 Field Ticket # 479	8	75.00	Dump Truck	600.00T
Select Energy - Cowtown South 3-10-20 Truck # 8 Perazas Transport Loads -6 Field Ticket # 1394	8	75.00	Dump Truck	600.00T
Select Energy - Cowtown South 3-10-20 Truck # 9 Perazas Transport Loads -6 Field Ticket # 1393 tax exempt	8	75.00 0.00%	Dump Truck	600.00T 0.00
			Total	\$3,000.00

ENTERED
 APR 02 2020

247474

Alison Aesta

ITS TRUCKING - Jesus Sepulveda

P.O. Box 2633
Hobbs, NM 88241

CITY, STATE, ZIP

Iron Horse Services LLC
418 W Ave C
Longfort N.M. 88260

FO# 553

DATE 3-10-20

3-10-20 Company: B.D.S. Enterprises

Load # 52-02 + Cont NewH
Top Soil

Lords: 6

Hours 8 Hours

Boyle-Lung

Jesus

440121

SOLD TO IRON HORSE SERVICES LLC		SHIP TO JTS TRUCKING - Jesus Sepulveda	
ADDRESS 418 W AVE C		ADDRESS P.O. Box 2633	
CITY, STATE, ZIP LOVINGTON NM 88260		CITY, STATE, ZIP 575 390 8294	
CUSTOMER ORDER NO.	SOLD BY	TERMS	DATE
			3-10-20

ORDERED	SHIPPED	DESCRIPTION	PRICE	UNIT	AMOUNT
3-10-20		Company : BPS Enterprises			
		LEASE : Select Cowtown North			
		TOP SOIL			
		LEADS : 6			
		HOURS : 8 Hours			
		Douglas Ewing			

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03/10/20**INVOICE**
1394Company BDS EnterprisesLocation Caricne Pit - CO-407

Deliver to _____

START TIME _____ AM PM END TIME _____ AM PM TOTAL HOURS _____

Job # _____ PO # _____

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	<u>1 # 8</u>
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
------------------	-----------

<u>6 loads</u>	<u>8 Hours</u>
----------------	----------------

<u>lease = Select row town North</u>	
--------------------------------------	--

<u>Driver = Eustacio</u>	
--------------------------	--

Work Performed By _____

Company Man Signature Douglas Ewing

INVOICE PRINTED SERVICE, INC

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03/10/20**INVOICE**
1393Company BDS EnterprisesLocation Cavigne Pit - CO-407

Deliver to _____

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
------------	----------	----------	----------	----------------

Job # _____ PO # _____

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	✓ # 9
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
6 loads 8 Hours	
lease = select courtown North	
Driver = Jesus Mendoza	

Work Performed By _____

Company Man Signature

Storgos King

SUPERIOR PRINTING SERVICE, INC.

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B
I
L
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T
O

BDS Enterprises

CONTRACT
NUMBERA.F.E.
NUMBERREQ. OR
PURCHASE ORDER
NUMBERFIELD
ORDER
NUMBER

0479

DATE

03/10/2020

ORDERED BY

DELIVERED
FROM

TO

LOCATION

Select count down North

WELL OR
RIG NO.TRUCK OR
UNIT NO.

#3

CAPACITY

12

AMOUNT
HAULEDTIME
OUTAM
PMTIME
INAM
PMHOURS
CHGD.

DELIVERED BY

DESCRIPTION

○ HR.

○ BBL.

RATE

AMOUNT

✓✓✓✓✓

8 hours

Hrs.

bbls

#KCL

Disp

Disp

Loads

Yards

Other

TOP GAUGE

BOTTOM GAUGE

HIGHWAY MILES

LOADED

UNLOADED

TERMS:

TAX

NET TOTAL

AUTHORIZED BY:

OPERATOR OR DRIVER

Ernesto Hovikar

X

Douglas Ewing

Thank You

SUPERIOR PRINTING SERVICE, INC.

Iron Horse Services LLC

418 W ave C

Lovington

NM 88260

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MAR 18 2020



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

313576
577
RECEIVED
MAR 18 2020

Invoice

Date 3/11/2020 Invoice # 1357

2 pgs -

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APR 02 2020

P.O. No.	Terms	Project
	Net 30	

Description	Quantity	Rate	Project	Amount
Select Energy - Cowtown South 3-11-20 Truck # J53 JTS Trucking Loads -7 Field Ticket # 247475	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # J53 JTS Trucking Loads -7 Field Ticket # 247475	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # 3 Montana Trucking Loads -7 Field Ticket # 480	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # 1 Montana Trucking Loads -7 Field Ticket # 578	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # 8 Perazas Transport Loads -7 Field Ticket # 1396	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # 9 Perazas Transport Loads -7 Field Ticket # 1397	12	75.00	Dump Truck	900.00T
Select Energy - Cowtown South 3-11-20 Truck # 10 Perazas Transport Loads -7 Field Ticket # 1395	12	75.00	Dump Truck	900.00T
			Total	

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

Invoice

Date Invoice #
3/11/2020 1357

P.O. No.	Terms	Project
	Net 30	

Description	Quantity	Rate	Project	Amount
tax exempt		0.00%		0.00
			Total	\$6,300.00

ENTERED
APR 02 2020

247475

INVOICE

TO: RAMON ACOSTA H

FROM: JTS TRUCKING - Jesus Sepulveda

ADDRESS: 418 W AVE C
LOVINGTON N.M 88260

ADDRESS: P.O. Box 2633
Hobbs, NM 88241

CITY, STATE, ZIP:

F.O.B.: J 53 TRUCK 3-11-20

DATE:

QUANTITY	DESCRIPTION	PRICE	UNIT	AMOUNT
3-11-20	COMPANY BAS ENTERPRISES			
	LENSE SEL-CT CON NATI			
	TOP SOIL			
	LOADS 7			
	HORS 12 HORS			
	Douglas Ewing			

440122

ORDERED		SHIPPED	DESCRIPTION	PRICE	UNIT	AMOUNT
3-11-20			Company: BDS Enterprises			
			LEASE & SELECT COWTOWN NORTH			
			TOP SOIL			
			LOADS: 7			
			HOURS: 12 HOURS			
			Powder Ewok			

Invoice		SOLD TO		SHIP TO	
IRON HORSE SERVICES LLC		JTS TRUCKING - Jesus Sepulveda		P.O. Box 2633	
ADDRESS		ADDRESS		Hobbs, NM 88241	
418 W AVE C		CITY, STATE, ZIP		575 390 8294	
CITY, STATE, ZIP		CITY, STATE, ZIP		575 390 8294	
CUSTOMER ORDER NO.		SOLD BY		TERMS	
				F.O.B.	
				554	
				DATE	
				3-11-20	

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B
I
L
L

T
O*BDS Enterprises*CONTRACT
NUMBERA.F.E.
NUMBERREQ OR
PURCHASE ORDER
NUMBERFIELD
ORDER
NUMBER

0480

DATE

03/11/2020

ORDERED BY

DELIVERED
FROM

TO

LOCATION

*Salt Canyon North*WELL OR
RIG NO.TRUCK OR
UNIT NO.

3

CAPACITY

12

AMOUNT
HAULEDTIME
OUTAM
PMTIME
INAM
PMHOURS
CHGD.

DELIVERED BY

DESCRIPTION

○ HR.

○ BBL.

RATE

AMOUNT

✓✓✓✓✓

Hrs.

bbls

12 hours

#KCL

Disp

Disp

Loads

Yards

Other

TOP GAUGE

BOTTOM GAUGE

HIGHWAY MILES

LOADED

UNLOADED

TERMS:

TAX

NET TOTAL

AUTHORIZED BY:

OPERATOR OR DRIVER

*Eroesto Aguilaz x Douglas King**Thank You*

SUPERIOR PRINTING SERVICE, INC.

Montana Trucking, LLC			
1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630			
B I L L T O	<i>BDS Enterprises</i>	CONTRACT NUMBER	FIELD ORDER NUMBER 0578
		A.F.E. NUMBER	DATE <i>3/11/21</i>
		REQ. OR PURCHASE ORDER NUMBER	ORDERED BY

DELIVERED FROM <i>select cow town</i>		TO	
LOCATION <i>select cow town North</i>		WELL OR RIG NO.	
TRUCK OR UNIT NO. <i>1</i>	CAPACITY	AMOUNT HAULED	TIME OUT AM PM
		TIME IN AM PM	HOURS CHGD.
DELIVERED BY			
DESCRIPTION		☐ HR. ☐ BBL.	RATE
<i>7 Loads</i>		Hrs.	
		bbls	
<i>12 hours</i>		#KCL	
		Disp	
		Disp	
		Loads	
		Yards	
		Other	
TOP GAUGE	BOTTOM GAUGE		
HIGHWAY MILES		TAX	
LOADED	UNLOADED	NET TOTAL	

OPERATOR OR DRIVER *D. M. S.* X *Douglas Ewing* *Thank You*

SUPERIOR PRINTING SERVICE, INC.

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

**INVOICE
1396**Date 03-11-20Company BDS enterprisesLocation Caliche Pit - CO-407

Deliver to _____

START TIME 6:00 AM PM END TIME 6:00 AM PM TOTAL HOURS 12

Job # _____ PO # _____

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	✓ #08
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
<u>7 Loads</u>	
<u>Lease = select cow town north</u>	

Work Performed By _____

Company Man Signature Douglas Ewing

SUPERIOR PRINTING SERVICE, LLC

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03-11-20**INVOICE
1397**Company BDS enterpriseLocation caliche Pit-co-407

Deliver to _____

START TIME 6- AM PM END TIME 6- AM PM TOTAL HOURS 12

Job # _____ PO # _____

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	✓ #09 (AT)
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
<u>7 Loads</u>	
<u>Lease = select cow town North</u>	

Work Performed By _____

Company Man Signature Douglas Ewing

SUPERIOR PRINTING SERVICE INC.

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03/11/20**INVOICE
1395**Company BDS EnterprisesLocation Saline Pit - CO-407

Deliver to _____

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
6:00		6:00		12

Job #	PO #

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	✓ # 10
Lowboy 3 Axle	
Lowboy 4 Axle	
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
7 loads	
lease = Select row town North	

Work Performed By _____

Company Man Signature

Douglas Ewing

SUPERIOR PRINTING SERVICE, INC.

Iron Horse Services LLC

418 W ave C
Lovington
NM 88260

RECEIVED

MAR 18 2020

313576
577
RECEIVED
MAR 18 2020

**IRON
HORSE**
SERVICES LLC



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

Invoice

Date 3/13/2020 Invoice # 1358

ENTERED
APR 02 2020

2888

P.O. No.	Terms	Project
	Net 30	

Description	Quantity	Rate	Project	Amount
Select Energy - Cowtown South 3-12-20 Truck # J53 JTS Trucking Loads -6 Field Ticket # 247476	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-12-20 Truck # J54 JTS Trucking Loads -6 Field Ticket # 440123	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-11-20 Truck # 3 Montana Trucking Loads -6 Field Ticket # 481	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-11-20 Truck # 1 Montana Trucking Loads -5 Field Ticket # 579	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-11-20 Truck # 10 Perazas Transport Loads -6 Field Ticket # 1399	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-11-20 Truck # 9 Perazas Transport Loads -6 Field Ticket # 1400	10	75.00	Dump Truck	750.00T
Select Energy - Cowtown South 3-11-20 Truck # 8 Perazas Transport Loads -6 Field Ticket # 1398	10	75.00	Dump Truck	750.00T
			Total	

Iron Horse Services LLC
418 W ave C
Lovington
NM 88260



Bill To
BDS Enterprises LLC PO Box 2286 Carlsbad, NM 88221

Invoice

Date Invoice #
3/13/2020 1358

P.O. No.	Terms	Project
	Net 30	

Description	Quantity	Rate	Project	Amount
tax exempt		0.00%		0.00
			Total	\$5,250.00

ENTERED
APR 02 2020

247476

Invoice

RAMON ACOSTA H

IRON HORSE SERVICES LLE

418 W AVE C

LOVINGTON NM 88260

SHIP TO JTS TRUCKING - Jesus Sepulveda

P.O. Box 2633

Hobbs, NM 88241

CITY, STATE, ZIP

EQ. E

DATE

JTS TRUCK 3-12-20

ORDERED	SHIPPED	DESCRIPTION	PRICE	UNIT	AMOUNT
3-12-20		COMPANY BAS ENTERPRISES			
		LENSE .SELEC.T COWTU NORTH			
		TOP SEIL			
		LOADS 6			
		HORS 10			
		Bongler Ewing			

440123

Invoice

SOLD TO Iron Horse Services LLC		SHIP TO JTS TRUCKING - Jesus Sepulveda			
ADDRESS 418 W AVE D		P.O. Box 2633 Hobbs, NM 88241			
CITY, STATE, ZIP LOVING TOWN NM 88269		CITY, STATE, ZIP 575 390 8294			
CUSTOMER ORDER NO.	SOLD BY	DATE			
		3-12-20			
TERMS	FAR				
	J54				
ORDERED	SHIPPED	DESCRIPTION	PRICE	QUANTITY	AMOUNT
3-12-20		Company: BDS Enterprises			
		LEASE: SILENT COUNTRY NORTH			
		LOADS 6			
		HOURS 10			
		Songler Ewing			

0015

Montana Trucking, LLC

1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630

B I L L T O	BDS Enterpris	CONTRACT NUMBER	FIELD ORDER NUMBER 0481
		A.F.E. NUMBER	DATE 03/12/2020
		REQ. OR PURCHASE ORDER NUMBER	ORDERED BY

DELIVERED FROM		TO									
LOCATION		Seleccowtown North								WELL OR RIG NO.	
TRUCK OR UNIT NO. #3	CAPACITY 12	AMOUNT HAULED	TIME OUT	AM PM	TIME IN	AM PM	HOURS CHGD.	DELIVERED BY			
DESCRIPTION						☐ HR.	☐ BBL.	RATE	AMOUNT		
✓✓✓✓✓											
							Hrs.				
							bbls				
							#KCL				
							Disp				
							Disp				
10 Hours							Loads				
							Yards				
							Other				
TOP GAUGE		BOTTOM GAUGE									
HIGHWAY MILES											
LOADED		UNLOADED									
				TERMS: _____							
				NET TOTAL							
				TAX							

OPERATOR OR DRIVER
 Ernesto Aguilar x Douglas Ewing
 SUPERIOR PRINTING SERVICE, INC.

AUTHORIZED BY:

Thank You

Montana Trucking, LLC			
1015 E. Broadway • Hobbs, NM 88240 • (575) 263-9630			
BILL TO	<i>SOS Enterprises</i>		FIELD ORDER NUMBER 0579
			DATE <i>3/12/21</i>
			ORDERED BY
		CONTRACT NUMBER	
		A.F.E. NUMBER	
		REQ. OR PURCHASE ORDER NUMBER	

DELIVERED FROM <i>Fit</i>		TO	
LOCATION <i>Select Cow Town North</i>			WELL OR RIG NO.
TRUCK OR UNIT NO. <i>1</i>	CAPACITY	AMOUNT HAULED	TIME OUT
			AM PM
			TIME IN
			AM PM
			HOURS CHGD.
DELIVERED BY			
DESCRIPTION		☐ HR. ☐ BBL	RATE
			AMOUNT
		Hrs.	
<i>Hauled Top Soil</i>		bbls	
		#KCL	
		Disp	
		Disp	
<i>10 Hours</i>		<i>5</i> Loads	
		Yards	
		Other	
TOP GAUGE	BOTTOM GAUGE		
HIGHWAY MILES			
LOADED	UNLOADED		
TERMS:		TAX	
		NET TOTAL	

OPERATOR OR DRIVER *P. May*
 SUPERIOR PRINTING SERVICE, INC.

AUTHORIZED BY: *Douglas Swing*

Thank You

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

INVOICE
1399Date 03-12-20Company BDS enterpriseLocation Caliche Pit - CO-407

Deliver to _____

START TIME _____ AM PM END TIME _____ AM PM TOTAL HOURS 10

Job # _____ PO # _____

EQUIPMENT PROVIDED BY:

	#
Fiatbed	
Belly Dump	
Dump Truck ✓	#10
Lowboy 3 Axle	
Lowboy 4 Axle	6 Loads
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #s
Lease = select courtown north	
Driver = Angel	

Work Performed By _____

Company Man Signature Douglas Ewing

PERAZA'S TRANSPORT, LLC

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

Date 03-12-20**INVOICE
1400**Company BDS enterpriseLocation Caliche Pit. - Co-407

Deliver to _____

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
				<u>16</u>

Job #

PO #

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	<u>✓ #09</u>
Lowboy 3 Axle	
Lowboy 4 Axle	<u>6 Loads (AT)</u>
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
<u>Lease = select cow town north</u>	
<u>Driver = Jesus</u>	

Work Performed By _____

Company Man Signature

Douglas EwingC-S & Tarr

SUPERIOR HOISTING SERVICE, INC.

PERAZA'S TRANSPORT, LLC

P.O. BOX 3243 • HOBBS, NM 88241

blancaperaza0070@gmail.com

Ph 575-441-2129 / 575-408-3735

**INVOICE
1398**Date 03-12-20Company BDS enterpriseLocation Caliche Pit - CO-407

Deliver to _____

START TIME	AM PM	END TIME	AM PM	TOTAL HOURS
				<u>10</u>

Job # _____

PO # _____

EQUIPMENT PROVIDED BY:

Flatbed	#
Belly Dump	
Dump Truck	<u>✓ #08</u>
Lowboy 3 Axle	
Lowboy 4 Axle	<u>6 Loads</u>
Pipe Trailer	
Other	
Other	

WORK DESCRIPTION	Scale #'s
<u>Lease = Select Cow town north</u>	
<u>Driver Everardo Chaparro</u>	

Work Performed By _____

Company Man Signature

Douglas Caring

SUPERIOR PAVING SERVICE, INC.

Appendix E
Laboratory Reports

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



Analytical Report

Prepared for:

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

Project: Select Energy Cowtown South

Project Number: 19-0179-03

Location:

Lab Order Number: 9J14006



NELAP/TCEQ # T104704516-18-9

Report Date: 10/25/19

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 (0.5')	9J14006-01	Soil	10/11/19 09:51	10-13-2019 14:30
HA-1 (1')	9J14006-02	Soil	10/11/19 09:53	10-13-2019 14:30
HA-2 (0.5')	9J14006-03	Soil	10/11/19 09:54	10-13-2019 14:30
HA-2 (1')	9J14006-04	Soil	10/11/19 09:55	10-13-2019 14:30
HA-3 (0.5')	9J14006-05	Soil	10/11/19 09:57	10-13-2019 14:30
HA-3 (1')	9J14006-06	Soil	10/11/19 10:00	10-13-2019 14:30
HA-4 (0.5')	9J14006-07	Soil	10/11/19 10:02	10-13-2019 14:30
HA-4 (1')	9J14006-08	Soil	10/11/19 10:03	10-13-2019 14:30
HA-5 (0.5')	9J14006-09	Soil	10/11/19 10:07	10-13-2019 14:30
HA-5 (1')	9J14006-10	Soil	10/11/19 10:10	10-13-2019 14:30
HA-6 (0.5')	9J14006-11	Soil	10/11/19 10:21	10-13-2019 14:30
HA-6 (1')	9J14006-12	Soil	10/11/19 10:23	10-13-2019 14:30
HA-7 (0.5')	9J14006-13	Soil	10/11/19 10:27	10-13-2019 14:30
HA-7 (1')	9J14006-14	Soil	10/11/19 10:29	10-13-2019 14:30
HA-8 (0.5')	9J14006-15	Soil	10/11/19 10:33	10-13-2019 14:30
HA-8 (1')	9J14006-16	Soil	10/11/19 10:36	10-13-2019 14:30
HA-9 (0.5')	9J14006-17	Soil	10/11/19 10:40	10-13-2019 14:30
HA-9 (1')	9J14006-18	Soil	10/11/19 10:43	10-13-2019 14:30

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-1 (0.5')
9J14006-01 (Soil)

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

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.37	1.05	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		94.3 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-1 (1')
9J14006-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	80.0	1.03	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-2 (0.5')
9J14006-03 (Soil)

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

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.8 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.8 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	671	1.08	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		97.9 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-2 (1')
9J14006-04 (Soil)

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

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	240	1.08	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (0.5')
9J14006-05 (Soil)

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

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.9 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7210	27.5	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		96.5 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (1')
9J14006-06 (Soil)

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

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	7560	26.9	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-4 (0.5')
9J14006-07 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.5 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7680	26.6	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		94.3 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-4 (1')
9J14006-08 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	8070	26.6	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0
% Moisture	69.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (0.5')
9J14006-09 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.8 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7080	26.9	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (1')
9J14006-10 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	6650	26.0	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-6 (0.5')
9J14006-11 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.2 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.45	1.05	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.2 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-6 (1')
9J14006-12 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.66	1.06	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-7 (0.5')
9J14006-13 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.2 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.8	1.04	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		148 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-7 (1')
9J14006-14 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.1	1.04	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (0.5')
9J14006-15 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5070	26.3	mg/kg dry	25	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (1')
9J14006-16 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.3	1.03	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-9 (0.5')
9J14006-17 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9J1802	10/18/19	10/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.5	1.08	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P9J1717	10/17/19	10/18/19	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	10/17/19	10/18/19	calc	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Select Energy Cowntown South	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0179-03	
Midland TX, 79710	Project Manager: Mark Larson	

HA-9 (1')
9J14006-18 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	23.2	1.09	mg/kg dry	1	P9J1811	10/18/19	10/20/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9J1602	10/16/19	10/16/19	ASTM D2216	

Larson & Associates, Inc.
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Midland TX, 79710

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Project Number: 19-0179-03
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Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9J1802 - General Preparation (GC)

Blank (P9J1802-BLK1)

Prepared & Analyzed: 10/18/19

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	0.114		"	0.120		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.4	75-125			

LCS (P9J1802-BS1)

Prepared & Analyzed: 10/18/19

Benzene	0.0825	0.00100	mg/kg wet	0.100		82.5	70-130			
Toluene	0.0979	0.00100	"	0.100		97.9	70-130			
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130			
Xylene (p/m)	0.214	0.00200	"	0.200		107	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

LCS Dup (P9J1802-BSD1)

Prepared & Analyzed: 10/18/19

Benzene	0.0809	0.00100	mg/kg wet	0.100		80.9	70-130	1.91	20	
Toluene	0.0946	0.00100	"	0.100		94.6	70-130	3.43	20	
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	70-130	6.02	20	
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130	0.387	20	
Xylene (o)	0.108	0.00100	"	0.100		108	70-130	2.57	20	
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			

Calibration Blank (P9J1802-CCB1)

Prepared & Analyzed: 10/18/19

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	0.128		"	0.120		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.6	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9J1802 - General Preparation (GC)

Calibration Blank (P9J1802-CCB2)

Prepared & Analyzed: 10/18/19

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	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.1	75-125			

Calibration Blank (P9J1802-CCB3)

Prepared: 10/18/19 Analyzed: 10/19/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			

Calibration Check (P9J1802-CCV1)

Prepared & Analyzed: 10/18/19

Benzene	0.0820	0.00100	mg/kg wet	0.100		82.0	80-120			
Toluene	0.0945	0.00100	"	0.100		94.5	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Calibration Check (P9J1802-CCV2)

Prepared & Analyzed: 10/18/19

Benzene	0.0878	0.00100	mg/kg wet	0.100		87.8	80-120			
Toluene	0.0985	0.00100	"	0.100		98.5	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.120		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	75-125			

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9J1802 - General Preparation (GC)

Calibration Check (P9J1802-CCV3)

Prepared & Analyzed: 10/18/19

Benzene	0.0856	0.00100	mg/kg wet	0.100		85.6	80-120			
Toluene	0.0956	0.00100	"	0.100		95.6	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.0	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Matrix Spike (P9J1802-MS1)

Source: 9J14002-01

Prepared & Analyzed: 10/18/19

Benzene	0.106	0.00132	mg/kg dry	0.132	ND	80.4	80-120			
Toluene	0.110	0.00132	"	0.132	ND	83.3	80-120			
Ethylbenzene	0.111	0.00132	"	0.132	ND	84.2	80-120			
Xylene (p/m)	0.246	0.00263	"	0.263	ND	93.6	80-120			
Xylene (o)	0.111	0.00132	"	0.132	ND	84.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.172		"	0.158		109	75-125			
Surrogate: 4-Bromofluorobenzene	0.177		"	0.158		112	75-125			

Matrix Spike Dup (P9J1802-MSD1)

Source: 9J14002-01

Prepared & Analyzed: 10/18/19

Benzene	0.104	0.00132	mg/kg dry	0.132	ND	78.7	80-120	2.12	20	QM-07
Toluene	0.115	0.00132	"	0.132	ND	87.7	80-120	5.19	20	
Ethylbenzene	0.111	0.00132	"	0.132	ND	84.1	80-120	0.107	20	
Xylene (p/m)	0.247	0.00263	"	0.263	ND	93.9	80-120	0.331	20	
Xylene (o)	0.106	0.00132	"	0.132	ND	80.9	80-120	4.66	20	
Surrogate: 1,4-Difluorobenzene	0.174		"	0.158		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.176		"	0.158		111	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

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

Batch P9J1602 - * DEFAULT PREP *****

Blank (P9J1602-BLK1)				Prepared & Analyzed: 10/16/19						
% Moisture	ND	0.1	%							
Duplicate (P9J1602-DUP1)				Source: 9J14006-14 Prepared & Analyzed: 10/16/19						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P9J1602-DUP2)				Source: 9J14008-01 Prepared & Analyzed: 10/16/19						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P9J1602-DUP3)				Source: 9J15006-04 Prepared & Analyzed: 10/16/19						
% Moisture	26.0	0.1	%		25.0			3.92	20	
Duplicate (P9J1602-DUP4)				Source: 9J15006-18 Prepared & Analyzed: 10/16/19						
% Moisture	6.0	0.1	%		6.0			0.00	20	

Batch P9J1811 - * DEFAULT PREP *****

Blank (P9J1811-BLK1)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9J1811-BS1)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	438	1.00	mg/kg wet	400		109	80-120			
LCS Dup (P9J1811-BSD1)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	440	1.00	mg/kg wet	400		110	80-120	0.545	20	
Calibration Blank (P9J1811-CCB1)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	0.00		mg/kg wet							

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9J1811 - *** DEFAULT PREP ***										
Calibration Blank (P9J1811-CCB2)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9J1811-CCV1)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P9J1811-CCV2)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	20.2		mg/kg	20.0		101	0-200			
Calibration Check (P9J1811-CCV3)				Prepared: 10/18/19 Analyzed: 10/20/19						
Chloride	19.7		mg/kg	20.0		98.5	0-200			
Matrix Spike (P9J1811-MS1)				Source: 9J12020-24		Prepared: 10/18/19 Analyzed: 10/20/19				
Chloride	12600	28.4	mg/kg dry	2840	9740	102	80-120			
Matrix Spike (P9J1811-MS2)				Source: 9J14006-10		Prepared: 10/18/19 Analyzed: 10/20/19				
Chloride	7270	26.0	mg/kg dry	2600	6650	24.0	80-120			QM-07
Matrix Spike Dup (P9J1811-MSD1)				Source: 9J12020-24		Prepared: 10/18/19 Analyzed: 10/20/19				
Chloride	12300	28.4	mg/kg dry	2840	9740	91.8	80-120	2.36	20	
Matrix Spike Dup (P9J1811-MSD2)				Source: 9J14006-10		Prepared: 10/18/19 Analyzed: 10/20/19				
Chloride	9970	26.0	mg/kg dry	2600	6650	127	80-120	31.2	20	QM-07

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9J1717 - TX 1005

Blank (P9J1717-BLK1)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	63.6		"	50.0		127	70-130			

LCS (P9J1717-BS1)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

LCS Dup (P9J1717-BSD1)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125	0.467	20	
>C12-C28	1100	25.0	"	1000		110	75-125	0.606	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	60.2		"	50.0		120	70-130			

Calibration Blank (P9J1717-CCB1)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	14.2		mg/kg wet							
>C12-C28	6.08		"							
Surrogate: 1-Chlorooctane	134		"	140		95.7	70-130			
Surrogate: o-Terphenyl	71.7		"	70.0		102	70-130			

Calibration Blank (P9J1717-CCB2)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	11.4		mg/kg wet							
>C12-C28	8.07		"							
Surrogate: 1-Chlorooctane	147		"	140		105	70-130			
Surrogate: o-Terphenyl	78.2		"	70.0		112	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9J1717 - TX 1005

Calibration Check (P9J1717-CCV1)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	562	25.0	mg/kg wet	500		112	85-115			
>C12-C28	508	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	66.3		"	50.0		133	70-130			S-GC

Calibration Check (P9J1717-CCV2)

Prepared: 10/17/19 Analyzed: 10/18/19

C6-C12	522	25.0	mg/kg wet	500		104	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

10/25/2019

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.

Project: Select Energy Cowtown South

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-03

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

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

No 0747

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

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

DATE: 10/13/2019

PAGE 2 OF 2

PO#:

LAB WORK ORDER#:

914006

PROJECT LOCATION OR NAME: Select Energy, Loutain South

LAI PROJECT #: 19-0179-03

COLLECTOR: RN/EC

Data Reported to:

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:

MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

PRESERVATION

HCl

HNO₃H₂SO₄

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐
DIESEL MOD 8015 ☐
OIL MOD 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐ PAH 8270 ☐ HCLPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
8082 PCBs ☐
TELPA - METALS (RCRA) ☐ TOLPAH ☐
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
TOTAL METALS (RCRA) ☐ OTHER LIST ☐
LEAD - TOTAL ☐ D.W. 2008 ☐ TCLP ☐
RO ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
PH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PCHLORATE ☐
CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐
pH ☐

FIELD NOTES

HA-8 (1')

16

10/11/17

10:36

S

1

X

X

X

X

X

HA-9 (0.5')

17

10:40

I

1

X

X

X

X

HA-9 (1')

18

10:43

I

1

TOTAL

RELINQUISHED BY: (Signature)

Cabo

DATE/TIME

10/13/19/14:30

RECEIVED BY: (Signature)

Diana Beddoe

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

PBE

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 19.2.9

THERM#: CF+1/2

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED☐ CARRIER BILL #☐ HAND DELIVERED

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



Analytical Report

Prepared for:

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

Project: Cowtown South-Select Energy

Project Number: 19-0179-03

Location:

Lab Order Number: 9K05018



NELAP/TCEQ # T104704516-17-8

Report Date: 11/15/19

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 (5')	9K05018-01	Soil	11/04/19 11:33	11-05-2019 10:35
HA-2 (8')	9K05018-02	Soil	11/04/19 11:43	11-05-2019 10:35
HA-3 (5')	9K05018-03	Soil	11/04/19 11:57	11-05-2019 10:35
HA-4 (5')	9K05018-04	Soil	11/04/19 12:33	11-05-2019 10:35
HA-4 (8')	9K05018-05	Soil	11/04/19 12:37	11-05-2019 10:35
HA-5 (5')	9K05018-06	Soil	11/04/19 12:54	11-05-2019 10:35
HA-5 (10')	9K05018-07	Soil	11/04/19 13:04	11-05-2019 10:35
HA-5 (15')	9K05018-08	Soil	11/04/19 13:18	11-05-2019 10:35
HA-8 (5')	9K05018-09	Soil	11/04/19 13:33	11-05-2019 10:35
HA-8 (10')	9K05018-10	Soil	11/04/19 13:37	11-05-2019 10:35
HA-8 (15')	9K05018-11	Soil	11/04/19 13:52	11-05-2019 10:35

Larson & Associates, Inc.
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Project: Cowtown South-Select Energy
Project Number: 19-0179-03
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Fax: (432) 687-0456

HA-1 (5')
9K05018-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	104	1.10	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	9.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-2 (8')
9K05018-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.07	1.04	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (5')
9K05018-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7080	26.3	mg/kg dry	25	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	5.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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HA-4 (5')
9K05018-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	13800	55.6	mg/kg dry	50	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	10.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

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Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-4 (8')
9K05018-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7000	26.6	mg/kg dry	25	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	6.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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HA-5 (5')
9K05018-06 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7560	26.6	mg/kg dry	25	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	6.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03
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HA-5 (10')
9K05018-07 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	6830	27.2	mg/kg dry	25	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	8.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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HA-5 (15')
9K05018-08 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.0	1.08	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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HA-8 (5')
9K05018-09 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.2	1.04	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (10')
9K05018-10 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.3	1.08	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	7.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

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Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (15')
9K05018-11 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.97	1.04	mg/kg dry	1	P9K1204	11/12/19	11/13/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9K0601	11/06/19	11/06/19	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9K0601 - * DEFAULT PREP *****

Blank (P9K0601-BLK1)		Prepared & Analyzed: 11/06/19							
% Moisture	ND	0.1	%						
Duplicate (P9K0601-DUP1)		Source: 9K05010-09		Prepared & Analyzed: 11/06/19					
% Moisture	8.0	0.1	%		8.0			0.00	20
Duplicate (P9K0601-DUP2)		Source: 9K05018-02		Prepared & Analyzed: 11/06/19					
% Moisture	4.0	0.1	%		4.0			0.00	20
Duplicate (P9K0601-DUP3)		Source: 9K05023-06		Prepared & Analyzed: 11/06/19					
% Moisture	4.0	0.1	%		4.0			0.00	20

Batch P9K1204 - * DEFAULT PREP *****

Blank (P9K1204-BLK1)		Prepared: 11/12/19 Analyzed: 11/13/19							
Chloride	ND	0.100	mg/kg wet						
LCS (P9K1204-BS1)		Prepared: 11/12/19 Analyzed: 11/13/19							
Chloride	420	1.00	mg/kg wet	400		105	80-120		
LCS Dup (P9K1204-BSD1)		Prepared: 11/12/19 Analyzed: 11/13/19							
Chloride	422	1.00	mg/kg wet	400		105	80-120	0.504	20
Calibration Blank (P9K1204-CCB1)		Prepared: 11/12/19 Analyzed: 11/13/19							
Chloride	-0.0430		mg/kg wet						
Calibration Blank (P9K1204-CCB2)		Prepared: 11/12/19 Analyzed: 11/13/19							
Chloride	0.00		mg/kg wet						

Permian Basin Environmental Lab, L.P.

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Project Manager: Mark Larson

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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
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Batch P9K1204 - * DEFAULT PREP *****

Calibration Check (P9K1204-CCV1)

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	20.0		mg/kg	20.0		99.8	0-200			
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Calibration Check (P9K1204-CCV2)

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	19.9		mg/kg	20.0		99.5	0-200			
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Calibration Check (P9K1204-CCV3)

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	20.4		mg/kg	20.0		102	0-200			
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Matrix Spike (P9K1204-MS1)

Source: 9K04002-07

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	5560	10.4	mg/kg dry	1040	4700	82.8	80-120			
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Matrix Spike (P9K1204-MS2)

Source: 9K05018-03

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	9830	26.3	mg/kg dry	2630	7080	105	80-120			
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Matrix Spike Dup (P9K1204-MSD1)

Source: 9K04002-07

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	5520	10.4	mg/kg dry	1040	4700	79.4	80-120	0.636	20	
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Matrix Spike Dup (P9K1204-MSD2)

Source: 9K05018-03

Prepared: 11/12/19 Analyzed: 11/13/19

Chloride	9770	26.3	mg/kg dry	2630	7080	102	80-120	0.631	20	
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Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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

Report Approved By:



Date:

11/15/2019

Brent Barron, Laboratory Director/Technical Director

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Page 17 of 17

DATE: 11/05/2019 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: 9K05018
PROJECT LOCATION OR NAME: Courtown South - Select Energy
LAI PROJECT #: 19-0179-03 COLLECTOR: RN/EC

[illegible]

RECEIVING TEMP: -5.0 THERM#: 12
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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



Analytical Report

Prepared for:

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

Project: Select Energy Cowtown South

Project Number: 19-0179-03

Location: NM

Lab Order Number: 0A17003



NELAP/TCEQ # T104704516-17-8

Report Date: 01/21/20

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4.1	0A17003-01	Soil	01/16/20 13:00	01-17-2020 09:37
4.2	0A17003-02	Soil	01/16/20 13:02	01-17-2020 09:37
4.3	0A17003-03	Soil	01/16/20 13:03	01-17-2020 09:37
4.4	0A17003-04	Soil	01/16/20 13:05	01-17-2020 09:37
4.5	0A17003-05	Soil	01/16/20 13:06	01-17-2020 09:37
4.6	0A17003-06	Soil	01/16/20 13:08	01-17-2020 09:37
4.7	0A17003-07	Soil	01/16/20 13:15	01-17-2020 09:37
4.8	0A17003-08	Soil	01/16/20 13:17	01-17-2020 09:37
4.9	0A17003-09	Soil	01/16/20 13:20	01-17-2020 09:37
4.10	0A17003-10	Soil	01/16/20 13:21	01-17-2020 09:37
4.11	0A17003-11	Soil	01/16/20 13:30	01-17-2020 09:37
4.12	0A17003-12	Soil	01/16/20 13:31	01-17-2020 09:37
4.13	0A17003-13	Soil	01/16/20 13:32	01-17-2020 09:37
4.14	0A17003-14	Soil	01/16/20 13:33	01-17-2020 09:37
4.15	0A17003-15	Soil	01/16/20 13:35	01-17-2020 09:37
4.16	0A17003-16	Soil	01/16/20 13:36	01-17-2020 09:37
4.17	0A17003-17	Soil	01/16/20 13:37	01-17-2020 09:37
4.18	0A17003-18	Soil	01/16/20 13:39	01-17-2020 09:37
4.19	0A17003-19	Soil	01/16/20 13:40	01-17-2020 09:37
4.20	0A17003-20	Soil	01/16/20 13:42	01-17-2020 09:37
4.21	0A17003-21	Soil	01/16/20 13:40	01-17-2020 09:37
4.22	0A17003-22	Soil	01/16/20 13:41	01-17-2020 09:37
4.23	0A17003-23	Soil	01/16/20 13:42	01-17-2020 09:37
4.24	0A17003-24	Soil	01/16/20 13:42	01-17-2020 09:37
4.25	0A17003-25	Soil	01/16/20 13:43	01-17-2020 09:37
4.26	0A17003-26	Soil	01/16/20 13:45	01-17-2020 09:37
2.1	0A17003-27	Soil	01/16/20 13:56	01-17-2020 09:37
2.2	0A17003-28	Soil	01/16/20 14:00	01-17-2020 09:37
2.3	0A17003-29	Soil	01/16/20 14:03	01-17-2020 09:37
2.4	0A17003-30	Soil	01/16/20 14:05	01-17-2020 09:37
2.5	0A17003-31	Soil	01/16/20 14:07	01-17-2020 09:37
2.6	0A17003-32	Soil	01/16/20 14:10	01-17-2020 09:37
2.7	0A17003-33	Soil	01/16/20 14:15	01-17-2020 09:37
2.8	0A17003-34	Soil	01/16/20 14:17	01-17-2020 09:37

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Midland TX, 79710

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2.9	0A17003-35	Soil	01/16/20 14:18	01-17-2020 09:37
2.10	0A17003-36	Soil	01/16/20 14:20	01-17-2020 09:37

Permian Basin Environmental Lab, L.P.

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Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.1

0A17003-01 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	64.8	1.01	mg/kg dry	1	P0A1804	01/18/20	01/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.2

0A17003-02 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5570	10.4	mg/kg dry	10	P0A1804	01/18/20	01/18/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.3 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.3

0A17003-03 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A1702	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.00	1.02	mg/kg dry	1	P0A1804	01/18/20	01/18/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.4 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		93.6 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.4

0A17003-04 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.43	1.01	mg/kg dry	1	P0A1804	01/18/20	01/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.5

0A17003-05 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.93	1.02	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		98.4 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.6

0A17003-06 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.6	1.02	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.5 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.7

0A17003-07 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.71	1.01	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.6 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.8

0A17003-08 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1706	01/17/20	01/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.01	1.01	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.3 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		90.1 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.9

0A17003-09 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.2	1.03	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.8 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		89.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.10

0A17003-10 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.9	1.01	mg/kg dry	1	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.11

0A17003-11 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5720	10.4	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.12

0A17003-12 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.3 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4460	10.4	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.4 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.13

0A17003-13 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6400	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.2 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.14

0A17003-14 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5960	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.5 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.15

0A17003-15 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5510	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.16

0A17003-16 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6400	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.6 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.17

0A17003-17 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2080	5.21	mg/kg dry	5	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.18

0A17003-18 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4090	5.21	mg/kg dry	5	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.9 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.19

0A17003-19 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6480	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.7 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0A1801	01/18/20	01/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.20

0A17003-20 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5470	10.5	mg/kg dry	10	P0A1804	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.21

0A17003-21 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.2	1.05	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.0 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		86.2 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.22

0A17003-22 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5500	10.5	mg/kg dry	10	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.23

0A17003-23 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A1706	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5740	10.5	mg/kg dry	10	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.24

0A17003-24 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4920	10.5	mg/kg dry	10	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.4 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.25

0A17003-25 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4860	10.4	mg/kg dry	10	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.26

0A17003-26 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	49.1	1.05	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.1

0A17003-27 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.1	1.01	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.2

0A17003-28 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.74	1.02	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.7 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.3

0A17003-29 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	998	1.06	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.5 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.4

0A17003-30 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2980	5.10	mg/kg dry	5	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.5

0A17003-31 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	487	1.02	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.5 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.6

0A17003-32 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1030	1.01	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.5 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.7

0A17003-33 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4250	5.32	mg/kg dry	5	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.8

0A17003-34 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.5 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.0	1.03	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.4 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.9

0A17003-35 (Soil)

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

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5190	10.9	mg/kg dry	10	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.9 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.10

0A17003-36 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A1707	01/17/20	01/18/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	22.8	1.05	mg/kg dry	1	P0A1805	01/18/20	01/19/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2003	01/20/20	01/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0A1802	01/18/20	01/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/18/20	01/19/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1702 - General Preparation (GC)

Blank (P0A1702-BLK1)

Prepared & Analyzed: 01/17/20

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		98.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			

LCS (P0A1702-BS1)

Prepared & Analyzed: 01/17/20

Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130			
Toluene	0.118	0.00100	"	0.100		118	70-130			
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130			
Xylene (p/m)	0.231	0.00200	"	0.200		116	70-130			
Xylene (o)	0.105	0.00100	"	0.100		105	70-130			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

LCS Dup (P0A1702-BSD1)

Prepared & Analyzed: 01/17/20

Benzene	0.116	0.00100	mg/kg wet	0.100		116	70-130	1.73	20	
Toluene	0.116	0.00100	"	0.100		116	70-130	1.07	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130	1.26	20	
Xylene (p/m)	0.229	0.00200	"	0.200		115	70-130	0.846	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	0.598	20	
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

Calibration Blank (P0A1702-CCB1)

Prepared & Analyzed: 01/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1702 - General Preparation (GC)

Calibration Blank (P0A1702-CCB2)

Prepared & Analyzed: 01/17/20

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		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Calibration Blank (P0A1702-CCB3)

Prepared & Analyzed: 01/17/20

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	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.9	75-125			

Calibration Check (P0A1702-CCV1)

Prepared & Analyzed: 01/17/20

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.221	0.00200	"	0.200		110	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			

Calibration Check (P0A1702-CCV2)

Prepared & Analyzed: 01/17/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		105	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1702 - General Preparation (GC)

Calibration Check (P0A1702-CCV3)

Prepared & Analyzed: 01/17/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

Matrix Spike (P0A1702-MS1)

Source: 0A17001-01

Prepared & Analyzed: 01/17/20

Benzene	0.0897	0.00106	mg/kg dry	0.106	0.00589	78.8	80-120			QM-07
Toluene	0.0911	0.00106	"	0.106	0.0118	74.6	80-120			QM-07
Ethylbenzene	0.105	0.00106	"	0.106	ND	98.7	80-120			
Xylene (p/m)	0.182	0.00213	"	0.213	0.0196	76.3	80-120			QM-07
Xylene (o)	0.0859	0.00106	"	0.106	0.00357	77.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.135		"	0.128		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.128		99.4	75-125			

Batch P0A1706 - General Preparation (GC)

Blank (P0A1706-BLK1)

Prepared & Analyzed: 01/17/20

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	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1706 - General Preparation (GC)

LCS (P0A1706-BS1)

Prepared & Analyzed: 01/17/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.103	0.00100	"	0.100		103	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			

LCS Dup (P0A1706-BSD1)

Prepared & Analyzed: 01/17/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	5.36	20	
Toluene	0.108	0.00100	"	0.100		108	70-130	5.21	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	5.99	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	70-130	5.61	20	
Xylene (o)	0.115	0.00100	"	0.100		115	70-130	5.89	20	
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Calibration Blank (P0A1706-CCB1)

Prepared & Analyzed: 01/17/20

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	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.9	75-125			

Calibration Blank (P0A1706-CCB2)

Prepared: 01/17/20 Analyzed: 01/18/20

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	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	75-125			

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03
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
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Batch P0A1706 - General Preparation (GC)

Calibration Blank (P0A1706-CCB3)			Prepared: 01/17/20 Analyzed: 01/18/20							
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	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	75-125			

Calibration Check (P0A1706-CCV1)			Prepared & Analyzed: 01/17/20							
Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

Calibration Check (P0A1706-CCV2)			Prepared: 01/17/20 Analyzed: 01/18/20							
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Calibration Check (P0A1706-CCV3)			Prepared: 01/17/20 Analyzed: 01/18/20							
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		107	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

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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
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Batch P0A1706 - General Preparation (GC)

Matrix Spike (P0A1706-MS1)		Source: 0A17003-04		Prepared: 01/17/20		Analyzed: 01/18/20				
Benzene	0.0894	0.00101	mg/kg dry	0.101	ND	88.5	80-120			
Toluene	0.0883	0.00101	"	0.101	ND	87.4	80-120			
Ethylbenzene	0.105	0.00101	"	0.101	ND	104	80-120			
Xylene (p/m)	0.180	0.00202	"	0.202	ND	89.1	80-120			
Xylene (o)	0.0902	0.00101	"	0.101	ND	89.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.121		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.121		103	75-125			

Matrix Spike Dup (P0A1706-MSD1)		Source: 0A17003-04		Prepared: 01/17/20		Analyzed: 01/18/20				
Benzene	0.0909	0.00101	mg/kg dry	0.101	ND	90.0	80-120	1.70	20	
Toluene	0.0907	0.00101	"	0.101	ND	89.8	80-120	2.65	20	
Ethylbenzene	0.109	0.00101	"	0.101	ND	108	80-120	3.51	20	
Xylene (p/m)	0.185	0.00202	"	0.202	ND	91.6	80-120	2.86	20	
Xylene (o)	0.0922	0.00101	"	0.101	ND	91.3	80-120	2.20	20	
Surrogate: 1,4-Difluorobenzene	0.125		"	0.121		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.121		104	75-125			

Batch P0A1707 - General Preparation (GC)

Blank (P0A1707-BLK1)				Prepared: 01/17/20		Analyzed: 01/18/20				
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	0.116		"	0.120		96.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			

Permian Basin Environmental Lab, L.P.

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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
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Batch P0A1707 - General Preparation (GC)

LCS (P0A1707-BS1)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130			
Toluene	0.109	0.00100	"	0.100		109	70-130			
Ethylbenzene	0.0997	0.00100	"	0.100		99.7	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		112	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

LCS Dup (P0A1707-BSD1)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	0.982	20	
Toluene	0.108	0.00100	"	0.100		108	70-130	1.24	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	1.14	20	
Xylene (p/m)	0.221	0.00200	"	0.200		110	70-130	1.01	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	1.03	20	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.7	75-125			

Calibration Blank (P0A1707-CCB1)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

Calibration Blank (P0A1707-CCB2)

Prepared: 01/17/20 Analyzed: 01/18/20

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	0.118		"	0.120		98.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.5	75-125			

Permian Basin Environmental Lab, L.P.

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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
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Batch P0A1707 - General Preparation (GC)

Calibration Check (P0A1707-CCV1)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		107	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P0A1707-CCV2)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P0A1707-CCV3)

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		103	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Matrix Spike (P0A1707-MS1)

Source: 0A17003-24

Prepared: 01/17/20 Analyzed: 01/18/20

Benzene	0.0903	0.00105	mg/kg dry	0.105	ND	85.8	80-120			
Toluene	0.0928	0.00105	"	0.105	ND	88.2	80-120			
Ethylbenzene	0.113	0.00105	"	0.105	ND	107	80-120			
Xylene (p/m)	0.190	0.00211	"	0.211	ND	90.3	80-120			
Xylene (o)	0.0961	0.00105	"	0.105	ND	91.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.126		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.126		106	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1707 - General Preparation (GC)

Matrix Spike Dup (P0A1707-MSD1)		Source: 0A17003-24		Prepared: 01/17/20		Analyzed: 01/18/20				
Benzene	0.0927	0.00105	mg/kg dry	0.105	ND	88.0	80-120	2.53	20	
Toluene	0.0937	0.00105	"	0.105	ND	89.0	80-120	0.892	20	
Ethylbenzene	0.114	0.00105	"	0.105	ND	108	80-120	1.24	20	
Xylene (p/m)	0.192	0.00211	"	0.211	ND	91.4	80-120	1.23	20	
Xylene (o)	0.0968	0.00105	"	0.105	ND	91.9	80-120	0.710	20	
Surrogate: 1,4-Difluorobenzene	0.133		"	0.126		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.126		110	75-125			

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1804 - * DEFAULT PREP *****

Blank (P0A1804-BLK1)

Prepared & Analyzed: 01/18/20

Chloride	ND	0.100	mg/kg wet
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LCS (P0A1804-BS1)

Prepared & Analyzed: 01/18/20

Chloride	421	1.00	mg/kg wet	400	105	80-120
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LCS Dup (P0A1804-BSD1)

Prepared & Analyzed: 01/18/20

Chloride	417	1.00	mg/kg wet	400	104	80-120	0.840	20
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Calibration Blank (P0A1804-CCB1)

Prepared & Analyzed: 01/18/20

Chloride	0.00		mg/kg wet
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Calibration Blank (P0A1804-CCB2)

Prepared: 01/18/20 Analyzed: 01/19/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0A1804-CCV1)

Prepared & Analyzed: 01/18/20

Chloride	21.2		mg/kg	20.0	106	0-200
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Calibration Check (P0A1804-CCV2)

Prepared: 01/18/20 Analyzed: 01/19/20

Chloride	21.2		mg/kg	20.0	106	0-200
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Calibration Check (P0A1804-CCV3)

Prepared: 01/18/20 Analyzed: 01/19/20

Chloride	21.5		mg/kg	20.0	107	0-200
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Matrix Spike (P0A1804-MS1)

Source: 0A17003-02

Prepared & Analyzed: 01/18/20

Chloride	6620	10.4	mg/kg dry	1040	5570	101	80-120
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Matrix Spike (P0A1804-MS2)

Source: 0A17003-11

Prepared: 01/18/20 Analyzed: 01/19/20

Chloride	6980	10.4	mg/kg dry	1040	5720	121	80-120
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Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1804 - * DEFAULT PREP *****

Matrix Spike Dup (P0A1804-MSD1)		Source: 0A17003-02			Prepared & Analyzed: 01/18/20					
Chloride	6700	10.4	mg/kg dry	1040	5570	109	80-120	1.18	20	
Matrix Spike Dup (P0A1804-MSD2)		Source: 0A17003-11			Prepared: 01/18/20 Analyzed: 01/19/20					
Chloride	6920	10.4	mg/kg dry	1040	5720	115	80-120	0.825	20	

Batch P0A1805 - * DEFAULT PREP *****

Blank (P0A1805-BLK1)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	ND	0.100	mg/kg wet							
LCS (P0A1805-BS1)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	423	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P0A1805-BSD1)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	422	1.00	mg/kg wet	400		105	80-120	0.263	20	
Calibration Blank (P0A1805-CCB1)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0A1805-CCB2)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0A1805-CCV1)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	21.5		mg/kg	20.0		107	0-200			
Calibration Check (P0A1805-CCV2)		Prepared: 01/18/20 Analyzed: 01/19/20								
Chloride	21.6		mg/kg	20.0		108	0-200			

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Project Manager: Mark Larson

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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
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Batch P0A1805 - * DEFAULT PREP *****

Calibration Check (P0A1805-CCV3)				Prepared: 01/18/20 Analyzed: 01/19/20						
Chloride	21.5		mg/kg	20.0		107	0-200			
Matrix Spike (P0A1805-MS1)				Source: 0A17003-22 Prepared: 01/18/20 Analyzed: 01/19/20						
Chloride	7280	10.5	mg/kg dry	1050	5500	169	80-120			QM-05
Matrix Spike (P0A1805-MS2)				Source: 0A17003-33 Prepared: 01/18/20 Analyzed: 01/19/20						
Chloride	5260	5.32	mg/kg dry	532	4250	189	80-120			QM-05
Matrix Spike Dup (P0A1805-MSD1)				Source: 0A17003-22 Prepared: 01/18/20 Analyzed: 01/19/20						
Chloride	7370	10.5	mg/kg dry	1050	5500	178	80-120	1.18	20	QM-05
Matrix Spike Dup (P0A1805-MSD2)				Source: 0A17003-33 Prepared: 01/18/20 Analyzed: 01/19/20						
Chloride	5080	5.32	mg/kg dry	532	4250	156	80-120	3.43	20	QM-05

Batch P0A2003 - * DEFAULT PREP *****

Blank (P0A2003-BLK1)				Prepared & Analyzed: 01/20/20						
% Moisture	ND	0.1	%							
Duplicate (P0A2003-DUP1)				Source: 0A16019-01 Prepared & Analyzed: 01/20/20						
% Moisture	11.0	0.1	%		9.0			20.0	20	
Duplicate (P0A2003-DUP2)				Source: 0A17003-23 Prepared & Analyzed: 01/20/20						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0A2003-DUP3)				Source: 0A17005-12 Prepared & Analyzed: 01/20/20						
% Moisture	6.0	0.1	%		6.0			0.00	20	

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Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

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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
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Batch P0A2003 - * DEFAULT PREP *****

Duplicate (P0A2003-DUP4)

Source: 0A17007-04

Prepared & Analyzed: 01/20/20

% Moisture	6.0	0.1	%		5.0			18.2	20	
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Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1801 - TX 1005

Blank (P0A1801-BLK1)

Prepared & Analyzed: 01/18/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

LCS (P0A1801-BS1)

Prepared & Analyzed: 01/18/20

C6-C12	867	25.0	mg/kg wet	1000		86.7	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

LCS Dup (P0A1801-BSD1)

Prepared & Analyzed: 01/18/20

C6-C12	927	25.0	mg/kg wet	1000		92.7	75-125	6.71	20	
>C12-C28	1130	25.0	"	1000		113	75-125	8.59	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

Calibration Blank (P0A1801-CCB1)

Prepared & Analyzed: 01/18/20

C6-C12	17.1		mg/kg wet							
>C12-C28	9.13		"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Calibration Blank (P0A1801-CCB2)

Prepared & Analyzed: 01/18/20

C6-C12	14.0		mg/kg wet							
>C12-C28	13.5		"							
Surrogate: 1-Chlorooctane	81.8		"	100		81.8	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.7	70-130			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1801 - TX 1005

Calibration Check (P0A1801-CCV1)

Prepared & Analyzed: 01/18/20

C6-C12	509	25.0	mg/kg wet	500		102	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

Calibration Check (P0A1801-CCV2)

Prepared & Analyzed: 01/18/20

C6-C12	437	25.0	mg/kg wet	500		87.4	85-115			
>C12-C28	464	25.0	"	500		92.8	85-115			
Surrogate: 1-Chlorooctane	77.4		"	100		77.4	70-130			
Surrogate: o-Terphenyl	37.6		"	50.0		75.1	70-130			

Matrix Spike (P0A1801-MS1)

Source: 0A17003-19

Prepared & Analyzed: 01/18/20

C6-C12	974	26.3	mg/kg dry	1050	18.5	90.7	75-125			
>C12-C28	1160	26.3	"	1050	24.2	108	75-125			
Surrogate: 1-Chlorooctane	122		"	105		116	70-130			
Surrogate: o-Terphenyl	51.8		"	52.6		98.4	70-130			

Matrix Spike Dup (P0A1801-MSD1)

Source: 0A17003-19

Prepared & Analyzed: 01/18/20

C6-C12	963	26.3	mg/kg dry	1050	18.5	89.8	75-125	1.10	20	
>C12-C28	1150	26.3	"	1050	24.2	107	75-125	0.851	20	
Surrogate: 1-Chlorooctane	124		"	105		118	70-130			
Surrogate: o-Terphenyl	56.3		"	52.6		107	70-130			

Batch P0A1802 - TX 1005

Blank (P0A1802-BLK1)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			

Permian Basin Environmental Lab, L.P.

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Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A1802 - TX 1005

LCS (P0A1802-BS1)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	1070	25.0	mg/kg wet	1000		107	75-125			
>C12-C28	1230	25.0	"	1000		123	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			

LCS Dup (P0A1802-BS1)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	975	25.0	mg/kg wet	1000		97.5	75-125	9.00	20	
>C12-C28	1140	25.0	"	1000		114	75-125	7.78	20	
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	57.9		"	50.0		116	70-130			

Calibration Blank (P0A1802-CCB1)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	21.5		mg/kg wet							
>C12-C28	8.38		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			

Calibration Blank (P0A1802-CCB2)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	22.7		mg/kg wet							
>C12-C28	9.20		"							
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			

Calibration Check (P0A1802-CCV1)

Prepared & Analyzed: 01/18/20

C6-C12	574	25.0	mg/kg wet	500		115	85-115			
>C12-C28	571	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

Permian Basin Environmental Lab, L.P.

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Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

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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
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Batch P0A1802 - TX 1005

Calibration Check (P0A1802-CCV2)

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	536	25.0	mg/kg wet	500		107	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

Matrix Spike (P0A1802-MS1)

Source: 0A16019-02

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	1060	28.7	mg/kg dry	1150	17.0	91.1	75-125			
>C12-C28	1290	28.7	"	1150	139	100	75-125			
Surrogate: 1-Chlorooctane	134		"	115		117	70-130			
Surrogate: o-Terphenyl	56.8		"	57.5		98.8	70-130			

Matrix Spike Dup (P0A1802-MSD1)

Source: 0A16019-02

Prepared: 01/18/20 Analyzed: 01/19/20

C6-C12	1060	28.7	mg/kg dry	1150	17.0	90.6	75-125	0.471	20	
>C12-C28	1290	28.7	"	1150	139	100	75-125	0.0710	20	
Surrogate: 1-Chlorooctane	134		"	115		117	70-130			
Surrogate: o-Terphenyl	57.2		"	57.5		99.6	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/21/2020

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.

Project: Select Energy Cowtown South

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-03

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

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☐ HANO DELIVEREO

Released to Imaging: 3/29/2021 8:57:57 AM

Page 61 of 61

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

DATE: 1/17/20 PAGE 3 OF 3
PO#: _____ LAB WORK ORDER#: 0A17003
PROJECT LOCATION OR NAME: Courtain South-Select Env
LAI PROJECT #: 19-0179-03 COLLECTOR: PO

Data Reported to:

[illegible]

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

TURN AROUND TIME

NORMAL 

1 DAY ☒

2 DAY ☒OTHER ~~X~~

LABORATORY USE ONLY:

RECEIVING TEMP: _____ THERM#: _____

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #☐ HAND DELIVERED

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



Analytical Report

Prepared for:

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

Project: Select Energy Cowtown South

Project Number: 19-0179-03

Location:

Lab Order Number: 0A23004



NELAP/TCEQ # T104704516-18-9

Report Date: 01/27/20

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2.11	0A23004-01	Soil	01/22/20 11:37	01-23-2020 09:45
2.12	0A23004-02	Soil	01/22/20 11:38	01-23-2020 09:45
2.13	0A23004-03	Soil	01/22/20 11:39	01-23-2020 09:45
2.14	0A23004-04	Soil	01/22/20 11:40	01-23-2020 09:45
2.15	0A23004-05	Soil	01/22/20 11:41	01-23-2020 09:45
2.16	0A23004-06	Soil	01/22/20 11:42	01-23-2020 09:45
8.1	0A23004-07	Soil	01/22/20 11:50	01-23-2020 09:45
8.2	0A23004-08	Soil	01/22/20 11:52	01-23-2020 09:45
8.3	0A23004-09	Soil	01/22/20 11:53	01-23-2020 09:45
8.4	0A23004-10	Soil	01/22/20 11:54	01-23-2020 09:45
8.5	0A23004-11	Soil	01/22/20 11:55	01-23-2020 09:45

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.11

0A23004-01 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2350	5.21	mg/kg dry	5	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.12

0A23004-02 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2590	5.26	mg/kg dry	5	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.13

0A23004-03 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5310	10.6	mg/kg dry	10	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.3 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.14

0A23004-04 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2400	5.26	mg/kg dry	5	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.15

0A23004-05 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3060	5.26	mg/kg dry	5	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

2.16

0A23004-06 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2110	5.21	mg/kg dry	5	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

8.1

0A23004-07 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.5	1.02	mg/kg dry	1	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.9 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

8.2

0A23004-08 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.5	1.04	mg/kg dry	1	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

8.3

0A23004-09 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.2	1.04	mg/kg dry	1	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

8.4

0A23004-10 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.55	1.02	mg/kg dry	1	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

8.5

0A23004-11 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P0A2303	01/23/20	01/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.6	1.03	mg/kg dry	1	P0A2306	01/23/20	01/24/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2401	01/24/20	01/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2305	01/23/20	01/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/23/20	01/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2303 - General Preparation (GC)

Blank (P0A2303-BLK1)

Prepared & Analyzed: 01/23/20

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	0.116		"	0.120		96.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

LCS (P0A2303-BS1)

Prepared & Analyzed: 01/23/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.104	0.00100	"	0.100		104	70-130			
Ethylbenzene	0.102	0.00100	"	0.100		102	70-130			
Xylene (p/m)	0.225	0.00200	"	0.200		112	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

LCS Dup (P0A2303-BSD1)

Prepared & Analyzed: 01/23/20

Benzene	0.109	0.00100	mg/kg wet	0.100		109	70-130	5.78	20	
Toluene	0.113	0.00100	"	0.100		113	70-130	8.22	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	5.78	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	70-130	0.791	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	6.30	20	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			

Calibration Blank (P0A2303-CCB1)

Prepared & Analyzed: 01/23/20

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	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2303 - General Preparation (GC)**Calibration Blank (P0A2303-CCB2)**

Prepared & Analyzed: 01/23/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Calibration Blank (P0A2303-CCB3)

Prepared & Analyzed: 01/23/20

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		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			

Calibration Check (P0A2303-CCV1)

Prepared & Analyzed: 01/23/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

Calibration Check (P0A2303-CCV2)

Prepared & Analyzed: 01/23/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2303 - General Preparation (GC)

Calibration Check (P0A2303-CCV3)				Prepared & Analyzed: 01/23/20						
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Matrix Spike (P0A2303-MS1)				Source: 0A23004-01		Prepared & Analyzed: 01/23/20				
Benzene	0.0895	0.00104	mg/kg dry	0.104	ND	85.9	80-120			
Toluene	0.0805	0.00104	"	0.104	ND	77.3	80-120			QM-07
Ethylbenzene	0.0927	0.00104	"	0.104	ND	89.0	80-120			
Xylene (p/m)	0.162	0.00208	"	0.208	ND	78.0	80-120			QM-07
Xylene (o)	0.0855	0.00104	"	0.104	ND	82.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.125		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.125		96.2	75-125			

Matrix Spike Dup (P0A2303-MSD1)				Source: 0A23004-01		Prepared & Analyzed: 01/23/20				
Benzene	0.0868	0.00104	mg/kg dry	0.104	ND	83.3	80-120	3.06	20	
Toluene	0.0800	0.00104	"	0.104	ND	76.8	80-120	0.662	20	QM-07
Ethylbenzene	0.0926	0.00104	"	0.104	ND	88.9	80-120	0.0787	20	
Xylene (p/m)	0.161	0.00208	"	0.208	ND	77.3	80-120	0.915	20	QM-07
Xylene (o)	0.0798	0.00104	"	0.104	ND	76.6	80-120	6.90	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.126		"	0.125		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.125		100	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2306 - * DEFAULT PREP *****

Blank (P0A2306-BLK1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	ND	0.100	mg/kg wet							
LCS (P0A2306-BS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	439	1.00	mg/kg wet	400		110	80-120			
LCS Dup (P0A2306-BSD1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	440	1.00	mg/kg wet	400		110	80-120	0.357	20	
Calibration Blank (P0A2306-CCB1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0A2306-CCB2)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0A2306-CCV1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0A2306-CCV2)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	22.3		mg/kg	20.0		112	0-200			
Calibration Check (P0A2306-CCV3)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	21.8		mg/kg	20.0		109	0-200			
Matrix Spike (P0A2306-MS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	2880	5.21	mg/kg dry	521	2350	103	80-120			
Matrix Spike (P0A2306-MS2)				Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	6710	29.4	mg/kg dry	5880	1320	91.6	80-120			

Permian Basin Environmental Lab, L.P.

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2306 - * DEFAULT PREP *****

Matrix Spike Dup (P0A2306-MSD1)	Source: 0A23004-01			Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	2940	5.21	mg/kg dry	521	2350	114	80-120	1.94	20	
Matrix Spike Dup (P0A2306-MSD2)	Source: 0A10004-01			Prepared: 01/23/20 Analyzed: 01/24/20						
Chloride	6860	29.4	mg/kg dry	5880	1320	94.1	80-120	2.23	20	

Batch P0A2401 - * DEFAULT PREP *****

Blank (P0A2401-BLK1)	Prepared & Analyzed: 01/24/20									
% Moisture	ND	0.1	%							
Duplicate (P0A2401-DUP1)	Source: 0A23003-20			Prepared & Analyzed: 01/24/20						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0A2401-DUP2)	Source: 0A23004-11			Prepared & Analyzed: 01/24/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowtown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2305 - TX 1005

Blank (P0A2305-BLK1)

Prepared & Analyzed: 01/23/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

LCS (P0A2305-BS1)

Prepared & Analyzed: 01/23/20

C6-C12	872	25.0	mg/kg wet	1000		87.2	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			

LCS Dup (P0A2305-BSD1)

Prepared & Analyzed: 01/23/20

C6-C12	966	25.0	mg/kg wet	1000		96.6	75-125	10.3	20	
>C12-C28	1160	25.0	"	1000		116	75-125	11.7	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	61.0		"	50.0		122	70-130			

Calibration Blank (P0A2305-CCB1)

Prepared & Analyzed: 01/23/20

C6-C12	16.7		mg/kg wet							
>C12-C28	5.65		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

Calibration Blank (P0A2305-CCB2)

Prepared & Analyzed: 01/23/20

C6-C12	15.1		mg/kg wet							
>C12-C28	4.87		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2305 - TX 1005

Calibration Check (P0A2305-CCV1)

Prepared & Analyzed: 01/23/20

C6-C12	538	25.0	mg/kg wet	500		108	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			

Calibration Check (P0A2305-CCV2)

Prepared & Analyzed: 01/23/20

C6-C12	549	25.0	mg/kg wet	500		110	85-115			
>C12-C28	536	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

Calibration Check (P0A2305-CCV3)

Prepared: 01/23/20 Analyzed: 01/24/20

C6-C12	550	25.0	mg/kg wet	500		110	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			

Matrix Spike (P0A2305-MS1)

Source: 0A22003-24

Prepared & Analyzed: 01/23/20

C6-C12	894	26.0	mg/kg dry	1040	15.7	84.3	75-125			
>C12-C28	1070	26.0	"	1040	16.1	101	75-125			
Surrogate: 1-Chlorooctane	103		"	104		99.0	70-130			
Surrogate: o-Terphenyl	51.4		"	52.1		98.7	70-130			

Matrix Spike Dup (P0A2305-MSD1)

Source: 0A22003-24

Prepared & Analyzed: 01/23/20

C6-C12	877	26.0	mg/kg dry	1040	15.7	82.7	75-125	1.89	20	
>C12-C28	1050	26.0	"	1040	16.1	99.7	75-125	1.20	20	
Surrogate: 1-Chlorooctane	106		"	104		102	70-130			
Surrogate: o-Terphenyl	55.0		"	52.1		106	70-130			

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/27/2020

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Select Energy Cowntown South
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Permian Basin Environmental Lab, L.P.

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

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

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

DATE: 1/23/2020 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: 0A23004
PROJECT LOCATION OR NAME: Courtown South-Select 8
LAI PROJECT #: 19-0179-02 COLLECTOR: RD

Data Reported to:

[illegible]

TOTAL

(RELINQUISHED BY: (Signature))

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

DBEL

TURN AROUND TIME

NORMAL

1 DAY 

2 DAY ~~1~~ RUSH!

OTHER ☐

ALL L2

LABORATORY USE ONLY:

RECEIVING TEMP. 20-30

THERM#

CUSTODY SEALS:- ☐ BROKEN ☒ INTACT ☐ NOT USED

CARRIER BILL #

☒ HAND DELIVERED



Certificate of Analysis Summary 651519

Larson and Associates, Inc., Midland, TX

Project Name: Select Energy-Cowtown South

Project Id: 19-0179-03

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu Feb-06-20 09:24 am

Report Date: 10-FEB-20

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	651519-001	651519-002	651519-003	651519-004	651519-005	651519-006
	<i>Field Id:</i>	2.4	2.6	4.2	2.3	2.7	2.8
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-03-20 13:36	Feb-03-20 13:59	Feb-03-20 14:15	Feb-03-20 15:35	Feb-04-20 09:47	Feb-04-20 09:48
BTEX by EPA 8021B	<i>Extracted:</i>	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00
	<i>Analyzed:</i>	Feb-07-20 13:49	Feb-07-20 15:29	Feb-07-20 15:49	Feb-07-20 16:09	Feb-07-20 16:29	Feb-07-20 16:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00397 0.00397	<0.00398 0.00398	<0.00403 0.00403
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35
	<i>Analyzed:</i>	Feb-07-20 02:46	Feb-07-20 04:14	Feb-07-20 04:20	Feb-07-20 04:27	Feb-07-20 04:34	Feb-07-20 06:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		28.7 5.00	47.6 5.03	1030 5.03	181 5.04	178 2.50	55.9 5.00
TPH by SW8015 Mod	<i>Extracted:</i>	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00
	<i>Analyzed:</i>	Feb-06-20 12:44	Feb-06-20 13:48	Feb-06-20 14:09	Feb-06-20 14:30	Feb-06-20 14:51	Feb-06-20 15:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9

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

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Certificate of Analysis Summary 651519

Larson and Associates, Inc., Midland, TX

Project Name: Select Energy-Cowtown South

Project Id: 19-0179-03

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu Feb-06-20 09:24 am

Report Date: 10-FEB-20

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	651519-007	651519-008	651519-009	651519-010	651519-011	651519-012
	<i>Field Id:</i>	2.9	2.10	2.11	2.12	2.13	2.14
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-04-20 09:50	Feb-04-20 09:51	Feb-04-20 09:52	Feb-04-20 09:54	Feb-04-20 09:55	Feb-04-20 09:56
BTEX by EPA 8021B	<i>Extracted:</i>	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00	Feb-07-20 10:00
	<i>Analyzed:</i>	Feb-07-20 17:09	Feb-07-20 18:28	Feb-07-20 18:48	Feb-07-20 19:09	Feb-07-20 19:29	Feb-07-20 19:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00404 0.00404	<0.00401 0.00401	<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35	Feb-06-20 12:35
	<i>Analyzed:</i>	Feb-07-20 05:39	Feb-07-20 05:46	Feb-07-20 05:52	Feb-07-20 05:59	Feb-07-20 06:06	Feb-07-20 07:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1470 5.00	4790 25.3	2590 25.0	2770 24.9	2980 24.8	3980 25.0
TPH by SW8015 Mod	<i>Extracted:</i>	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00	Feb-06-20 10:00
	<i>Analyzed:</i>	Feb-06-20 15:38	Feb-06-20 15:59	Feb-06-20 16:20	Feb-06-20 16:41	Feb-06-20 17:24	Feb-06-20 17:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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Holly Taylor
Project Manager



Certificate of Analysis Summary 651519

Larson and Associates, Inc., Midland, TX

Project Name: Select Energy-Cowtown South

Project Id: 19-0179-03

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu Feb-06-20 09:24 am

Report Date: 10-FEB-20

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	651519-013	651519-014				
	Field Id:	2.15	2.16				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Feb-04-20 09:58	Feb-04-20 09:59				
BTEX by EPA 8021B	Extracted:	Feb-07-20 14:30	Feb-07-20 14:30				
	Analyzed:	Feb-08-20 13:19	Feb-08-20 13:40				
	Units/RL:	mg/kg RL	mg/kg RL				
	Benzene	<0.00201 0.00201	<0.00199 0.00199				
	Toluene	<0.00201 0.00201	<0.00199 0.00199				
	Ethylbenzene	<0.00201 0.00201	<0.00199 0.00199				
	m,p-Xylenes	<0.00402 0.00402	<0.00398 0.00398				
	o-Xylene	<0.00201 0.00201	<0.00199 0.00199				
Chloride by EPA 300	Extracted:	Feb-06-20 12:35	Feb-06-20 12:35				
	Analyzed:	Feb-07-20 07:47	Feb-07-20 08:52				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		3540 24.8	3730 25.1				
TPH by SW8015 Mod	Extracted:	Feb-06-20 10:00	Feb-06-20 10:00				
	Analyzed:	Feb-06-20 18:07	Feb-06-20 18:28				
	Units/RL:	mg/kg RL	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<49.9 49.9	<49.8 49.8				
	Diesel Range Organics (DRO)	<49.9 49.9	<49.8 49.8				
	Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9	<49.8 49.8				
Total TPH		<49.9 49.9	<49.8 49.8				

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 651519

for
Larson and Associates, Inc.

Project Manager: Mark Larson

Select Energy-Cowtown South

19-0179-03

10-FEB-20

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

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

Xenco-Tampa: Florida (E87429), North Carolina (483)



10-FEB-20

Project Manager: **Mark Larson**

Larson and Associates, Inc.

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **651519**

Select Energy-Cowtown South

Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651519. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651519 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor

Project Manager

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

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Sample Cross Reference 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
2.4	S	02-03-20 13:36		651519-001
2.6	S	02-03-20 13:59		651519-002
4.2	S	02-03-20 14:15		651519-003
2.3	S	02-03-20 15:35		651519-004
2.7	S	02-04-20 09:47		651519-005
2.8	S	02-04-20 09:48		651519-006
2.9	S	02-04-20 09:50		651519-007
2.10	S	02-04-20 09:51		651519-008
2.11	S	02-04-20 09:52		651519-009
2.12	S	02-04-20 09:54		651519-010
2.13	S	02-04-20 09:55		651519-011
2.14	S	02-04-20 09:56		651519-012
2.15	S	02-04-20 09:58		651519-013
2.16	S	02-04-20 09:59		651519-014



CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Select Energy-Cowtown South

Project ID: 19-0179-03
Work Order Number(s): 651519

Report Date: 10-FEB-20
Date Received: 02/06/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115950 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7696206-1-BLK, 651519-002, 651519-004, 651519-001.

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

Batch: LBA-3115986 BTEX by EPA 8021B

Lab Sample ID 651519-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 651519-013, -014.

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

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



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.4
Lab Sample Id: 651519-001

Matrix: Soil
Date Collected: 02.03.20 13.36

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.7	5.00	mg/kg	02.07.20 02.46		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 12.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 12.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 12.44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 12.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	79	%	70-135	02.06.20 12.44		
o-Terphenyl	84-15-1	87	%	70-135	02.06.20 12.44		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.4
Lab Sample Id: 651519-001

Matrix: Soil
Date Collected: 02.03.20 13.36

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.07.20 13.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.07.20 13.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	57	%	70-130	02.07.20 13.49	**	
1,4-Difluorobenzene	540-36-3	108	%	70-130	02.07.20 13.49		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.6
Lab Sample Id: 651519-002

Matrix: Soil
Date Collected: 02.03.20 13.59

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.6	5.03	mg/kg	02.07.20 04.14		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 13.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 13.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 13.48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 13.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-135	02.06.20 13.48		
o-Terphenyl	84-15-1	85	%	70-135	02.06.20 13.48		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.6
Lab Sample Id: 651519-002

Matrix: Soil
Date Collected: 02.03.20 13.59

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.07.20 15.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.07.20 15.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.07.20 15.29		
4-Bromofluorobenzene	460-00-4	60	%	70-130	02.07.20 15.29	**	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 4.2
Lab Sample Id: 651519-003

Matrix: Soil
Date Collected: 02.03.20 14.15

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1030	5.03	mg/kg	02.07.20 04.20		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.06.20 14.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.06.20 14.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.06.20 14.09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.06.20 14.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	02.06.20 14.09	
o-Terphenyl	84-15-1	86	%	70-135	02.06.20 14.09	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 4.2
Lab Sample Id: 651519-003

Matrix: Soil
Date Collected: 02.03.20 14.15

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.07.20 15.49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.07.20 15.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	70-130	02.07.20 15.49		
1,4-Difluorobenzene	540-36-3	118	%	70-130	02.07.20 15.49		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.3
Lab Sample Id: 651519-004

Matrix: Soil
Date Collected: 02.03.20 15.35

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	5.04	mg/kg	02.07.20 04.27		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 14.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 14.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 14.30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 14.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	02.06.20 14.30		
o-Terphenyl	84-15-1	92	%	70-135	02.06.20 14.30		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.3
Lab Sample Id: 651519-004

Matrix: Soil
Date Collected: 02.03.20 15.35

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.07.20 16.09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.07.20 16.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.07.20 16.09		
4-Bromofluorobenzene	460-00-4	66	%	70-130	02.07.20 16.09	**	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.7
Lab Sample Id: 651519-005

Matrix: Soil
Date Collected: 02.04.20 09.47

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	178	2.50	mg/kg	02.07.20 04.34		5

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.06.20 14.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.06.20 14.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.06.20 14.51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.06.20 14.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-135	02.06.20 14.51		
o-Terphenyl	84-15-1	83	%	70-135	02.06.20 14.51		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.7
Lab Sample Id: 651519-005

Matrix: Soil
Date Collected: 02.04.20 09.47

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.07.20 16.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.07.20 16.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	02.07.20 16.29		
4-Bromofluorobenzene	460-00-4	78	%	70-130	02.07.20 16.29		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.8
Lab Sample Id: 651519-006

Matrix: Soil
Date Collected: 02.04.20 09.48

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.9	5.00	mg/kg	02.07.20 06.12		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 15.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 15.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 15.17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 15.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	02.06.20 15.17		
o-Terphenyl	84-15-1	85	%	70-135	02.06.20 15.17		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.8
Lab Sample Id: 651519-006

Matrix: Soil
Date Collected: 02.04.20 09.48

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.07.20 16.49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.07.20 16.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.07.20 16.49		
4-Bromofluorobenzene	460-00-4	77	%	70-130	02.07.20 16.49		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.9
Lab Sample Id: 651519-007

Matrix: Soil
Date Collected: 02.04.20 09.50

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1470	5.00	mg/kg	02.07.20 05.39		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.06.20 15.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.06.20 15.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.06.20 15.38	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.06.20 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	02.06.20 15.38	
o-Terphenyl	84-15-1	86	%	70-135	02.06.20 15.38	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.9
 Lab Sample Id: 651519-007

Matrix: Soil
 Date Collected: 02.04.20 09.50

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.07.20 17.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.07.20 17.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	73	%	70-130	02.07.20 17.09		
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.07.20 17.09		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.10
Lab Sample Id: 651519-008

Matrix: Soil
Date Collected: 02.04.20 09.51

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Seq Number: 3115872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4790	25.3	mg/kg	02.07.20 05.46		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Seq Number: 3115864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.06.20 15.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.06.20 15.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.06.20 15.59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.06.20 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	02.06.20 15.59	
o-Terphenyl	84-15-1	87	%	70-135	02.06.20 15.59	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.10
Lab Sample Id: 651519-008

Matrix: Soil
Date Collected: 02.04.20 09.51

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.07.20 18.28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.07.20 18.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	73	%	70-130	02.07.20 18.28		
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.07.20 18.28		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.11
 Lab Sample Id: 651519-009

Matrix: Soil
 Date Collected: 02.04.20 09.52

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2590	25.0	mg/kg	02.07.20 05.52		5

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.06.20 16.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.06.20 16.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.06.20 16.20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.06.20 16.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	02.06.20 16.20		
o-Terphenyl	84-15-1	90	%	70-135	02.06.20 16.20		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.11
 Lab Sample Id: 651519-009

Matrix: Soil
 Date Collected: 02.04.20 09.52

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.07.20 18.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.07.20 18.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	02.07.20 18.48		
4-Bromofluorobenzene	460-00-4	71	%	70-130	02.07.20 18.48		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.12
Lab Sample Id: 651519-010

Matrix: Soil
Date Collected: 02.04.20 09.54

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Seq Number: 3115872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2770	24.9	mg/kg	02.07.20 05.59		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Seq Number: 3115864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 16.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 16.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 16.41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 16.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-135	02.06.20 16.41		
o-Terphenyl	84-15-1	95	%	70-135	02.06.20 16.41		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.12
Lab Sample Id: 651519-010

Matrix: Soil
Date Collected: 02.04.20 09.54

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.07.20 19.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.07.20 19.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	73	%	70-130	02.07.20 19.09		
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.07.20 19.09		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.13
Lab Sample Id: 651519-011

Matrix: Soil
Date Collected: 02.04.20 09.55

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Seq Number: 3115872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2980	24.8	mg/kg	02.07.20 06.06		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Seq Number: 3115864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.06.20 17.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.06.20 17.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.06.20 17.24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.06.20 17.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	02.06.20 17.24	
o-Terphenyl	84-15-1	94	%	70-135	02.06.20 17.24	



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.13
 Lab Sample Id: 651519-011

Matrix: Soil
 Date Collected: 02.04.20 09.55

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.07.20 19.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.07.20 19.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	74	%	70-130	02.07.20 19.29		
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.07.20 19.29		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.14
Lab Sample Id: 651519-012

Matrix: Soil
Date Collected: 02.04.20 09.56

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115872

Prep Method: E300P

% Moisture:

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3980	25.0	mg/kg	02.07.20 07.40		5

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115864

Prep Method: SW8015P

% Moisture:

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.06.20 17.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.06.20 17.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.06.20 17.45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.06.20 17.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-135	02.06.20 17.45		
o-Terphenyl	84-15-1	89	%	70-135	02.06.20 17.45		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.14
Lab Sample Id: 651519-012

Matrix: Soil
Date Collected: 02.04.20 09.56

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.07.20 19.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.07.20 19.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	78	%	70-130	02.07.20 19.49		
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.07.20 19.49		



Certificate of Analytical Results 651519



Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.15
Lab Sample Id: 651519-013

Matrix: Soil
Date Collected: 02.04.20 09.58

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Seq Number: 3115872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3540	24.8	mg/kg	02.07.20 07.47		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Seq Number: 3115864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 18.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 18.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 18.07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 18.07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	02.06.20 18.07		
o-Terphenyl	84-15-1	99	%	70-135	02.06.20 18.07		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.15
 Lab Sample Id: 651519-013

Matrix: Soil
 Date Collected: 02.04.20 09.58

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 14.30

Basis: Wet Weight

Seq Number: 3115986

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.08.20 13.19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.08.20 13.19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.08.20 13.19		
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.08.20 13.19		



Certificate of Analytical Results 651519

Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: 2.16
Lab Sample Id: 651519-014

Matrix: Soil
Date Collected: 02.04.20 09.59

Date Received: 02.06.20 09.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.06.20 12.35

Basis: Wet Weight

Seq Number: 3115872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3730	25.1	mg/kg	02.07.20 08.52		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.06.20 10.00

Basis: Wet Weight

Seq Number: 3115864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.06.20 18.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.06.20 18.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.06.20 18.28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.06.20 18.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	02.06.20 18.28	
o-Terphenyl	84-15-1	97	%	70-135	02.06.20 18.28	



Certificate of Analytical Results 651519



Larson and Associates, Inc., Midland, TX

Select Energy-Cowtown South

Sample Id: **2.16**
Lab Sample Id: 651519-014

Matrix: Soil
Date Collected: 02.04.20 09.59

Date Received: 02.06.20 09.24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 14.30

Basis: Wet Weight

Seq Number: 3115986

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.08.20 13.40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.08.20 13.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.08.20 13.40		
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.08.20 13.40		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Larson and Associates, Inc.
Select Energy-Cowtown South

Analytical Method: Chloride by EPA 300

Seq Number: 3115872

MB Sample Id: 7696131-1-BLK

Matrix: Solid

LCS Sample Id: 7696131-1-BKS

Prep Method: E300P

Date Prep: 02.06.20

LCSD Sample Id: 7696131-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	259	104	90-110	0	20	mg/kg	02.07.20 01:48	

Analytical Method: Chloride by EPA 300

Seq Number: 3115872

Parent Sample Id: 651519-001

Matrix: Soil

MS Sample Id: 651519-001 S

Prep Method: E300P

Date Prep: 02.06.20

MSD Sample Id: 651519-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.7	249	288	104	290	105	90-110	1	20	mg/kg	02.07.20 03:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3115872

Parent Sample Id: 651519-006

Matrix: Soil

MS Sample Id: 651519-006 S

Prep Method: E300P

Date Prep: 02.06.20

MSD Sample Id: 651519-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.9	250	319	105	320	106	90-110	0	20	mg/kg	02.07.20 06:41	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3115864

MB Sample Id: 7696102-1-BLK

Matrix: Solid

LCS Sample Id: 7696102-1-BKS

Prep Method: SW8015P

Date Prep: 02.06.20

LCSD Sample Id: 7696102-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	840	84	837	84	70-135	0	20	mg/kg	02.06.20 12:01	
Diesel Range Organics (DRO)	<15.0	1000	888	89	860	86	70-135	3	20	mg/kg	02.06.20 12:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		89		70-135	%	02.06.20 12:01
o-Terphenyl	91		103		104		70-135	%	02.06.20 12:01

Analytical Method: TPH by SW8015 Mod

Seq Number: 3115864

Matrix: Solid

MB Sample Id: 7696102-1-BLK

Prep Method: SW8015P

Date Prep: 02.06.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.06.20 11:40	

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Larson and Associates, Inc.
Select Energy-Cowtown South

Analytical Method: TPH by SW8015 Mod

Seq Number: 3115864

Parent Sample Id: 651519-001

Matrix: Soil

MS Sample Id: 651519-001 S

Prep Method: SW8015P

Date Prep: 02.06.20

MSD Sample Id: 651519-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	20.7	999	808	79	798	78	70-135	1	20	mg/kg	02.06.20 13:06	
Diesel Range Organics (DRO)	24.8	999	821	80	848	82	70-135	3	20	mg/kg	02.06.20 13:06	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		85		70-135	%	02.06.20 13:06
o-Terphenyl	92		83		70-135	%	02.06.20 13:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115950

MB Sample Id: 7696206-1-BLK

Matrix: Solid

LCS Sample Id: 7696206-1-BKS

Prep Method: SW5030B

Date Prep: 02.07.20

LCSD Sample Id: 7696206-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.116	116	0.120	120	70-130	3	35	mg/kg	02.07.20 11:29	
Toluene	<0.000456	0.100	0.118	118	0.119	119	70-130	1	35	mg/kg	02.07.20 11:29	
Ethylbenzene	<0.000565	0.100	0.113	113	0.114	114	70-130	1	35	mg/kg	02.07.20 11:29	
m,p-Xylenes	<0.00101	0.200	0.224	112	0.227	114	70-130	1	35	mg/kg	02.07.20 11:29	
o-Xylene	<0.000344	0.100	0.110	110	0.112	112	70-130	2	35	mg/kg	02.07.20 11:29	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		112		111		70-130	%	02.07.20 11:29
4-Bromofluorobenzene	66	**	86		87		70-130	%	02.07.20 11:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115986

MB Sample Id: 7696229-1-BLK

Matrix: Solid

LCS Sample Id: 7696229-1-BKS

Prep Method: SW5030B

Date Prep: 02.07.20

LCSD Sample Id: 7696229-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0969	97	0.102	102	70-130	5	35	mg/kg	02.08.20 10:48	
Toluene	<0.00200	0.100	0.0896	90	0.0945	95	70-130	5	35	mg/kg	02.08.20 10:48	
Ethylbenzene	<0.00200	0.100	0.0909	91	0.0956	96	70-130	5	35	mg/kg	02.08.20 10:48	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.194	97	70-130	6	35	mg/kg	02.08.20 10:48	
o-Xylene	<0.00200	0.100	0.0906	91	0.0973	97	70-130	7	35	mg/kg	02.08.20 10:48	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		97		70-130	%	02.08.20 10:48
4-Bromofluorobenzene	105		98		100		70-130	%	02.08.20 10:48

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Larson and Associates, Inc.
Select Energy-Cowtown South

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115950

Parent Sample Id: 651519-001

Matrix: Soil

MS Sample Id: 651519-001 S

Prep Method: SW5030B

Date Prep: 02.07.20

MSD Sample Id: 651519-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000767	0.0998	0.109	108	0.116	116	70-130	6	35	mg/kg	02.07.20 12:09	
Toluene	0.000618	0.0998	0.102	102	0.106	106	70-130	4	35	mg/kg	02.07.20 12:09	
Ethylbenzene	<0.000564	0.0998	0.0925	93	0.0966	97	70-130	4	35	mg/kg	02.07.20 12:09	
m,p-Xylenes	<0.00101	0.200	0.181	91	0.188	94	70-130	4	35	mg/kg	02.07.20 12:09	
o-Xylene	<0.000344	0.0998	0.0913	91	0.0941	95	70-130	3	35	mg/kg	02.07.20 12:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		116		70-130	%	02.07.20 12:09
4-Bromofluorobenzene	90		92		70-130	%	02.07.20 12:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115986

Parent Sample Id: 651519-013

Matrix: Soil

MS Sample Id: 651519-013 S

Prep Method: SW5030B

Date Prep: 02.07.20

MSD Sample Id: 651519-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0838	84	0.0782	78	70-130	7	35	mg/kg	02.08.20 11:29	
Toluene	<0.00200	0.0998	0.0753	75	0.0701	70	70-130	7	35	mg/kg	02.08.20 11:29	
Ethylbenzene	<0.00200	0.0998	0.0714	72	0.0663	66	70-130	7	35	mg/kg	02.08.20 11:29	X
m,p-Xylenes	<0.00399	0.200	0.145	73	0.134	67	70-130	8	35	mg/kg	02.08.20 11:29	X
o-Xylene	<0.00200	0.0998	0.0763	76	0.0697	70	70-130	9	35	mg/kg	02.08.20 11:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		70-130	%	02.08.20 11:29
4-Bromofluorobenzene	100		100		70-130	%	02.08.20 11:29

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

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

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Select Energy - Downtown South

LAI PROJECT #: 19-0179-03 COLLECTOR: RW + DS

Data Reported to:

[illegible]

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME,

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: Yes

TURN AROUND TIME

NORMAL

1 DAY 

2 DAY ☒ Rush!

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 3.1 THERM#: 120

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #☐ HAND DELIVERED



Client: Larson and Associates, Inc.

Date/ Time Received: 02/06/2020 09:24:00 AM

Work Order #: 651519

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 02/06/2020

Checklist reviewed by:

Holly Taylor

Date: 02/10/2020

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



Analytical Report

Prepared for:

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

Project: Cowtown South-Select Energy

Project Number: 19-0179-03

Location: NM

Lab Order Number: 0B28003



NELAP/TCEQ # T104704516-17-8

Report Date: 03/02/20

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4.2	0B28003-01	Soil	02/27/20 12:47	02-28-2020 08:48

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

4.2

0B28003-01 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.7 %		75-125	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %		75-125	P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.4	1.04	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0C0209	03/02/20	03/02/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C12-C28	34.6	26.0	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C28-C35	28.5	26.0	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %		70-130	P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %		70-130	P0B2806	02/28/20	02/28/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	63.1	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Blank (P0B2803-BLK1)

Prepared & Analyzed: 02/28/20

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	0.112		"	0.120		93.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.0	75-125			

LCS (P0B2803-BS1)

Prepared & Analyzed: 02/28/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.0966	0.00100	"	0.100		96.6	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.102	0.00100	"	0.100		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			

LCS Dup (P0B2803-BSD1)

Prepared & Analyzed: 02/28/20

Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130	13.7	20	
Toluene	0.111	0.00100	"	0.100		111	70-130	13.5	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	7.25	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	12.0	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	13.4	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Calibration Blank (P0B2803-CCB1)

Prepared & Analyzed: 02/28/20

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		93.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Blank (P0B2803-CCB2)

Prepared & Analyzed: 02/28/20

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	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			

Calibration Blank (P0B2803-CCB3)

Prepared & Analyzed: 02/28/20

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		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.1	75-125			

Calibration Check (P0B2803-CCV1)

Prepared & Analyzed: 02/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Check (P0B2803-CCV2)

Prepared & Analyzed: 02/28/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Check (P0B2803-CCV3)				Prepared & Analyzed: 02/28/20						
Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.0987	0.00100	"	0.100		98.7	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			

Matrix Spike (P0B2803-MS1)				Source: 0B26011-01		Prepared & Analyzed: 02/28/20				
Benzene	0.126	0.00120	mg/kg dry	0.120	0.0490	63.7	80-120			QM-07
Toluene	0.0990	0.00120	"	0.120	0.0281	58.8	80-120			QM-07
Ethylbenzene	0.0990	0.00120	"	0.120	0.0154	69.4	80-120			QM-07
Xylene (p/m)	0.198	0.00241	"	0.241	0.0497	61.5	80-120			QM-07
Xylene (o)	0.0682	0.00120	"	0.120	0.0308	31.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.135		"	0.145		93.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.168		"	0.145		116	75-125			

Matrix Spike Dup (P0B2803-MSD1)				Source: 0B26011-01		Prepared & Analyzed: 02/28/20				
Benzene	0.116	0.00120	mg/kg dry	0.120	0.0490	55.6	80-120	13.5	20	QM-07
Toluene	0.0961	0.00120	"	0.120	0.0281	56.5	80-120	4.06	20	QM-07
Ethylbenzene	0.0822	0.00120	"	0.120	0.0154	55.5	80-120	22.3	20	QM-07
Xylene (p/m)	0.181	0.00241	"	0.241	0.0497	54.5	80-120	11.9	20	QM-07
Xylene (o)	0.0694	0.00120	"	0.120	0.0308	32.0	80-120	3.33	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.129		"	0.145		89.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.145		69.7	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2801 - * DEFAULT PREP *****

Blank (P0B2801-BLK1)				Prepared & Analyzed: 02/28/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0B2801-BS1)				Prepared & Analyzed: 02/28/20						
Chloride	481	1.00	mg/kg wet	420		114	80-120			
LCS Dup (P0B2801-BSD1)				Prepared & Analyzed: 02/28/20						
Chloride	487	1.00	mg/kg wet	420		116	80-120	1.26	20	
Calibration Blank (P0B2801-CCB1)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B2801-CCB2)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0B2801-CCV1)				Prepared & Analyzed: 02/28/20						
Chloride	22.3		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV2)				Prepared & Analyzed: 02/28/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV3)				Prepared & Analyzed: 02/28/20						
Chloride	24.1		mg/kg	20.0		120	0-200			
Matrix Spike (P0B2801-MS1)				Prepared & Analyzed: 02/28/20						
Chloride	3380	10.0	mg/kg wet	1000	2330	105	80-120			
Matrix Spike Dup (P0B2801-MSD1)				Prepared & Analyzed: 02/28/20						
Chloride	3360	10.0	mg/kg wet	1000	2330	103	80-120	0.549	20	

Permian Basin Environmental Lab, L.P.

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Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0209 - * DEFAULT PREP *****

Blank (P0C0209-BLK1)

Prepared & Analyzed: 03/02/20

% Moisture	ND	0.1	%
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Duplicate (P0C0209-DUP1)

Source: 0B28004-14

Prepared & Analyzed: 03/02/20

% Moisture	14.0	0.1	%	13.0	7.41	20
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Duplicate (P0C0209-DUP2)

Source: 0B28004-40

Prepared & Analyzed: 03/02/20

% Moisture	12.0	0.1	%	14.0	15.4	20
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Permian Basin Environmental Lab, L.P.

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2806 - TX 1005

Blank (P0B2806-BLK1)

Prepared & Analyzed: 02/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.3		"	50.0		129	70-130			

LCS (P0B2806-BS1)

Prepared & Analyzed: 02/28/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

LCS Dup (P0B2806-BSD1)

Prepared & Analyzed: 02/28/20

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	0.385	20	
>C12-C28	1120	25.0	"	1000		112	75-125	1.77	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Calibration Blank (P0B2806-CCB1)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	17.8		"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.6		"	50.0		129	70-130			

Calibration Blank (P0B2806-CCB2)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	6.78		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2806 - TX 1005

Calibration Check (P0B2806-CCV1)

Prepared & Analyzed: 02/28/20

C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Calibration Check (P0B2806-CCV2)

Prepared & Analyzed: 02/28/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Calibration Check (P0B2806-CCV3)

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	60.9		"	50.0		122	70-130			

Matrix Spike (P0B2806-MS1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1030	27.2	mg/kg dry	1090	15.7	93.1	75-125			
>C12-C28	1100	27.2	"	1090	24.2	99.3	75-125			
Surrogate: 1-Chlorooctane	119		"	109		109	70-130			
Surrogate: o-Terphenyl	64.2		"	54.3		118	70-130			

Matrix Spike Dup (P0B2806-MSD1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1120	27.2	mg/kg dry	1090	15.7	102	75-125	8.61	20	
>C12-C28	1210	27.2	"	1090	24.2	109	75-125	9.14	20	
Surrogate: 1-Chlorooctane	127		"	109		116	70-130			
Surrogate: o-Terphenyl	61.0		"	54.3		112	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/2/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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Project: Cowtown South-Select Energy

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-03

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

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Page 13 of 13

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

PAGE 1 OF 4

LAB WORK ORDER#: 0828003

LAI PROJECT #: 19-0179-03 COLLECTOR: BS/RN

Data Reported to:

[illegible]

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: FBEL

TURN AROUND TIME

NORMAL 

1 DAY ~~10~~ Rush

2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 47-57 THERM#: _____

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

☐ CARRIER BILL #☒ HAND DELIVERED

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



Analytical Report

Prepared for:

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0B27004



NELAP/TCEQ # T104704516-18-9

Report Date: 03/03/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
15.3	0B27004-01	Soil	02/26/20 00:00	02-27-2020 15:51
3.2	0B27004-02	Soil	02/26/20 00:00	02-27-2020 15:51
4.2	0B27004-03	Soil	02/26/20 00:00	02-27-2020 15:51
4.3	0B27004-04	Soil	02/26/20 00:00	02-27-2020 15:51
4.5	0B27004-05	Soil	02/26/20 00:00	02-27-2020 15:51
3.7	0B27004-07	Soil	02/27/20 00:00	02-27-2020 15:51
3.8	0B27004-08	Soil	02/27/20 00:00	02-27-2020 15:51
5.8	0B27004-09	Soil	02/27/20 00:00	02-27-2020 15:51
5.9	0B27004-10	Soil	02/27/20 00:00	02-27-2020 15:51
5.10	0B27004-11	Soil	02/27/20 00:00	02-27-2020 15:51
5.11	0B27004-12	Soil	02/27/20 00:00	02-27-2020 15:51
5.12	0B27004-13	Soil	02/27/20 00:00	02-27-2020 15:51
5.13	0B27004-14	Soil	02/27/20 00:00	02-27-2020 15:51
5.14	0B27004-15	Soil	02/27/20 00:00	02-27-2020 15:51
17.3	0B27004-16	Soil	02/27/20 00:00	02-27-2020 15:51
11.7	0B27004-17	Soil	02/27/20 00:00	02-27-2020 15:51
11.10	0B27004-18	Soil	02/27/20 00:00	02-27-2020 15:51
11.13	0B27004-19	Soil	02/27/20 00:00	02-27-2020 15:51
11.14	0B27004-20	Soil	02/27/20 00:00	02-27-2020 15:51
11.15	0B27004-21	Soil	02/27/20 00:00	02-27-2020 15:51
11.17	0B27004-22	Soil	02/27/20 00:00	02-27-2020 15:51

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.3

0B27004-01 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %		75-125	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %		75-125	P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	169	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	32.4	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %		70-130	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %		70-130	P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.4	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.2

0B27004-02 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	314	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	28.6	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.6	25.5	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.2

0B27004-03 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	41.9	1.03	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.3

0B27004-04 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.4	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.5

0B27004-05 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.0	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.7

0B27004-07 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	37.1	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	31.1	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	29.0	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	60.1	25.5	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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3.8

0B27004-08 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	310	1.10	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	54.8	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	54.8	27.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.8

0B27004-09 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	470	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	51.5	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	26.2	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		74.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	77.7	26.0	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.9

0B27004-10 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	259	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.1	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.3 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		71.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	45.1	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.10

0B27004-11 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.0	1.01	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.0	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		73.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	45.0	25.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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5.11

0B27004-12 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	146	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	25.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	25.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.12

0B27004-13 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.1	1.04	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.5 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		84.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.13

0B27004-14 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.9 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.2	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	28.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.7 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		88.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.14

0B27004-15 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.5 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	85.2	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.3

0B27004-16 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	752	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.6	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	56.7	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	84.3	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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Page 17 of 40

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.7

0B27004-17 (Soil)

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

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	78.5	1.01	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.10

0B27004-18 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.69	1.03	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0
% Moisture	3.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.10

0B27004-18RE1 (Soil)

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

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P0C0201	03/02/20	03/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %	80-120		P0C0201	03/02/20	03/03/20	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.13

0B27004-19 (Soil)

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

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.5	1.08	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	29.2	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		98.4 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.2	26.9	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.14

0B27004-20 (Soil)

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

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.8	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	35.8	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.8	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.15

0B27004-21 (Soil)

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

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	119	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.17

0B27004-22 (Soil)

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

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.8	1.09	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C28-C35	29.5	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0B2806	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.5	27.2	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Blank (P0B2803-BLK1)

Prepared & Analyzed: 02/28/20

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	0.112		"	0.120		93.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.0	75-125			

LCS (P0B2803-BS1)

Prepared & Analyzed: 02/28/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.0966	0.00100	"	0.100		96.6	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.102	0.00100	"	0.100		102	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			

LCS Dup (P0B2803-BSD1)

Prepared & Analyzed: 02/28/20

Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130	13.7	20	
Toluene	0.111	0.00100	"	0.100		111	70-130	13.5	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	7.25	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	12.0	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	13.4	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Calibration Blank (P0B2803-CCB1)

Prepared & Analyzed: 02/28/20

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		93.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Blank (P0B2803-CCB2)

Prepared & Analyzed: 02/28/20

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	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			

Calibration Blank (P0B2803-CCB3)

Prepared & Analyzed: 02/28/20

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		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.1	75-125			

Calibration Check (P0B2803-CCV1)

Prepared & Analyzed: 02/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Check (P0B2803-CCV2)

Prepared & Analyzed: 02/28/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Check (P0B2803-CCV3)

Prepared & Analyzed: 02/28/20

Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.0987	0.00100	"	0.100		98.7	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			

Matrix Spike (P0B2803-MS1)

Source: 0B26011-01

Prepared & Analyzed: 02/28/20

Benzene	0.126	0.00120	mg/kg dry	0.120	0.0490	63.7	80-120			QM-07
Toluene	0.0990	0.00120	"	0.120	0.0281	58.8	80-120			QM-07
Ethylbenzene	0.0990	0.00120	"	0.120	0.0154	69.4	80-120			QM-07
Xylene (p/m)	0.198	0.00241	"	0.241	0.0497	61.5	80-120			QM-07
Xylene (o)	0.0682	0.00120	"	0.120	0.0308	31.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.135		"	0.145		93.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.168		"	0.145		116	75-125			

Matrix Spike Dup (P0B2803-MSD1)

Source: 0B26011-01

Prepared & Analyzed: 02/28/20

Benzene	0.116	0.00120	mg/kg dry	0.120	0.0490	55.6	80-120	13.5	20	QM-07
Toluene	0.0961	0.00120	"	0.120	0.0281	56.5	80-120	4.06	20	QM-07
Ethylbenzene	0.0822	0.00120	"	0.120	0.0154	55.5	80-120	22.3	20	QM-07
Xylene (p/m)	0.181	0.00241	"	0.241	0.0497	54.5	80-120	11.9	20	QM-07
Xylene (o)	0.0694	0.00120	"	0.120	0.0308	32.0	80-120	3.33	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.101		"	0.145		69.7	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.129		"	0.145		89.2	75-125			

Batch P0C0201 - General Preparation (GC)

Blank (P0C0201-BLK1)

Prepared & Analyzed: 03/02/20

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			

Permian Basin Environmental Lab, L.P.

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Page 27 of 40

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0201 - General Preparation (GC)

LCS (P0C0201-BS1)

Prepared & Analyzed: 03/02/20

Benzene	0.0949	0.00100	mg/L	0.100		94.9	80-120			
Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

LCS Dup (P0C0201-BS1)

Prepared & Analyzed: 03/02/20

Benzene	0.110	0.00100	mg/L	0.100		110	80-120	14.9	20	
Toluene	0.109	0.00100	"	0.100		109	80-120	13.9	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	14.1	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	80-120	14.1	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	14.4	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			

Calibration Blank (P0C0201-CCB1)

Prepared & Analyzed: 03/02/20

Benzene	0.00		mg/L							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	80-120			

Calibration Check (P0C0201-CCV1)

Prepared & Analyzed: 03/02/20

Benzene	0.0985	0.00100	mg/L	0.100		98.5	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0C0201 - General Preparation (GC)

Calibration Check (P0C0201-CCV2)				Prepared & Analyzed: 03/02/20						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	80-120			

Matrix Spike (P0C0201-MS1)				Source: 0C02019-01		Prepared & Analyzed: 03/02/20				
Benzene	0.111	0.00100	mg/L	0.100	0.0596	51.6	80-120			QM-07
Toluene	0.382	0.00100	"	0.100	0.309	72.6	80-120			QM-07
Ethylbenzene	0.376	0.00100	"	0.100	0.270	107	80-120			
Xylene (p/m)	0.654	0.00200	"	0.200	0.459	97.8	80-120			
Xylene (o)	0.279	0.00100	"	0.100	0.187	92.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	80-120			

Matrix Spike Dup (P0C0201-MSD1)				Source: 0C02019-01		Prepared & Analyzed: 03/02/20				
Benzene	0.174	0.00100	mg/L	0.100	0.0596	115	80-120	75.9	20	QM-07
Toluene	0.370	0.00100	"	0.100	0.309	60.6	80-120	17.9	20	QM-07
Ethylbenzene	0.361	0.00100	"	0.100	0.270	91.0	80-120	15.8	20	
Xylene (p/m)	0.620	0.00200	"	0.200	0.459	80.6	80-120	19.2	20	
Xylene (o)	0.269	0.00100	"	0.100	0.187	82.0	80-120	11.4	20	
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2706 - * DEFAULT PREP *******Blank (P0B2706-BLK1)**

Prepared & Analyzed: 02/27/20

Chloride	ND	1.00	mg/kg wet
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LCS (P0B2706-BS1)

Prepared & Analyzed: 02/27/20

Chloride	401	1.00	mg/kg wet	400	100	80-120
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LCS Dup (P0B2706-BSD1)

Prepared & Analyzed: 02/27/20

Chloride	397	1.00	mg/kg wet	400	99.1	80-120	1.09	20
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Calibration Blank (P0B2706-CCB1)

Prepared & Analyzed: 02/27/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0B2706-CCV1)

Prepared & Analyzed: 02/27/20

Chloride	17.4		mg/kg	20.0	87.2	0-200
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Calibration Check (P0B2706-CCV2)

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	17.6		mg/kg	20.0	88.1	0-200
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Calibration Check (P0B2706-CCV3)

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	19.3		mg/kg	20.0	96.4	0-200
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Matrix Spike (P0B2706-MS1)

Source: 0B26007-13

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	10300	26.9	mg/kg dry	2690	7570	101	80-120
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Matrix Spike Dup (P0B2706-MSD1)

Source: 0B26007-13

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	10500	26.9	mg/kg dry	2690	7570	109	80-120	1.98	20
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Batch P0B2801 - * DEFAULT PREP *******Blank (P0B2801-BLK1)**

Prepared & Analyzed: 02/28/20

Chloride	ND	1.00	mg/kg wet
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Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2801 - * DEFAULT PREP *****

LCS (P0B2801-BS1)				Prepared & Analyzed: 02/28/20						
Chloride	481	1.00	mg/kg wet	420		114	80-120			
LCS Dup (P0B2801-BSD1)				Prepared & Analyzed: 02/28/20						
Chloride	487	1.00	mg/kg wet	420		116	80-120	1.26	20	
Calibration Blank (P0B2801-CCB1)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B2801-CCB2)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0B2801-CCV1)				Prepared & Analyzed: 02/28/20						
Chloride	22.3		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV2)				Prepared & Analyzed: 02/28/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV3)				Prepared & Analyzed: 02/28/20						
Chloride	24.1		mg/kg	20.0		120	0-200			
Matrix Spike (P0B2801-MS1)				Source: 0B28001-02		Prepared & Analyzed: 02/28/20				
Chloride	3980	11.8	mg/kg dry	1180	2740	105	80-120			
Matrix Spike Dup (P0B2801-MSD1)				Source: 0B28001-02		Prepared & Analyzed: 02/28/20				
Chloride	3950	11.8	mg/kg dry	1180	2740	103	80-120	0.549	20	

Batch P0B2802 - * DEFAULT PREP *****

Blank (P0B2802-BLK1)				Prepared & Analyzed: 02/28/20						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2802 - * DEFAULT PREP *****

Duplicate (P0B2802-DUP1)	Source: 0B26012-07		Prepared & Analyzed: 02/28/20							
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0B2802-DUP2)	Source: 0B27004-22		Prepared & Analyzed: 02/28/20							
% Moisture	8.0	0.1	%		8.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2805 - TX 1005

Blank (P0B2805-BLK1)

Prepared & Analyzed: 02/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

LCS (P0B2805-BS1)

Prepared & Analyzed: 02/28/20

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

LCS Dup (P0B2805-BSD1)

Prepared & Analyzed: 02/28/20

C6-C12	975	25.0	mg/kg wet	1000		97.5	75-125	4.60	20	
>C12-C28	1100	25.0	"	1000		110	75-125	1.31	20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Calibration Blank (P0B2805-CCB1)

Prepared & Analyzed: 02/28/20

C6-C12	16.6		mg/kg wet							
>C12-C28	21.4		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.3		"	50.0		121	70-130			

Calibration Blank (P0B2805-CCB2)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	24.3		mg/kg wet							
>C12-C28	19.9		"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2805 - TX 1005

Calibration Check (P0B2805-CCV1)

Prepared & Analyzed: 02/28/20

C6-C12	544	25.0	mg/kg wet	500		109	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			

Calibration Check (P0B2805-CCV2)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	566	25.0	mg/kg wet	500		113	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Calibration Check (P0B2805-CCV3)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	570	25.0	mg/kg wet	500		114	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			

Batch P0B2806 - TX 1005

Blank (P0B2806-BLK1)

Prepared & Analyzed: 02/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.3		"	50.0		129	70-130			

LCS (P0B2806-BS1)

Prepared & Analyzed: 02/28/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2806 - TX 1005

LCS Dup (P0B2806-BSD1)

Prepared & Analyzed: 02/28/20

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	0.385	20	
>C12-C28	1120	25.0	"	1000		112	75-125	1.77	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Calibration Blank (P0B2806-CCB1)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	17.8		"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.6		"	50.0		129	70-130			

Calibration Blank (P0B2806-CCB2)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	6.78		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			

Calibration Check (P0B2806-CCV1)

Prepared & Analyzed: 02/28/20

C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Calibration Check (P0B2806-CCV2)

Prepared & Analyzed: 02/28/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2806 - TX 1005

Calibration Check (P0B2806-CCV3)

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	60.9		"	50.0		122	70-130			

Matrix Spike (P0B2806-MS1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1030	27.2	mg/kg dry	1090	15.7	93.1	75-125			
>C12-C28	1100	27.2	"	1090	24.2	99.3	75-125			
Surrogate: 1-Chlorooctane	119		"	109		109	70-130			
Surrogate: o-Terphenyl	64.2		"	54.3		118	70-130			

Matrix Spike Dup (P0B2806-MSD1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1120	27.2	mg/kg dry	1090	15.7	102	75-125	8.61	20	
>C12-C28	1210	27.2	"	1090	24.2	109	75-125	9.14	20	
Surrogate: 1-Chlorooctane	127		"	109		116	70-130			
Surrogate: o-Terphenyl	61.0		"	54.3		112	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/3/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.

Project: Dagger Lake 551H

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-07

Midland TX, 79710

Project Manager: Mark Larson

Permian Basin Environmental Lab, L.P.

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

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



Analytical Report

Prepared for:

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

Project: Cowtown South-Select Energy

Project Number: 19-0179-03

Location: NM

Lab Order Number: 0C09002



NELAP/TCEQ # T104704516-17-8

Report Date: 03/13/20

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF Sand 1	0C09002-01	Soil	03/06/20 12:20	03-09-2020 09:33
BF Sand 2	0C09002-02	Soil	03/06/20 12:21	03-09-2020 09:33
BF Sand 3	0C09002-03	Soil	03/06/20 12:22	03-09-2020 09:33
BF Sand 4	0C09002-04	Soil	03/06/20 12:23	03-09-2020 09:33
BF Sand 5	0C09002-05	Soil	03/06/20 12:24	03-09-2020 09:33
BF Sand 6	0C09002-06	Soil	03/06/20 12:25	03-09-2020 09:33
BF Sand 7	0C09002-07	Soil	03/06/20 12:26	03-09-2020 09:33
BF Sand 8	0C09002-08	Soil	03/06/20 12:27	03-09-2020 09:33
BF Sand 9	0C09002-09	Soil	03/06/20 12:28	03-09-2020 09:33

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 1
0C09002-01 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	POC0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	POC0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	POC0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	POC0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	POC0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		POC0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		POC0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.01	1.06	mg/kg dry	1	POC0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	POC1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	POC0909	03/09/20	03/10/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	POC0909	03/09/20	03/10/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	POC0909	03/09/20	03/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		58.9 %	70-130		POC0909	03/09/20	03/10/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		67.1 %	70-130		POC0909	03/09/20	03/10/20	TPH 8015M	S-GC1
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/09/20	03/10/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 2
0C09002-02 (Soil)

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

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.02	1.02	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		81.3 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		91.9 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 3
0C09002-03 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.47	1.03	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/11/20	TPH 8015M	
>C12-C28	25.8	25.8	mg/kg dry	1	P0C0909	03/09/20	03/11/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		69.8 %	70-130		P0C0909	03/09/20	03/11/20	TPH 8015M	S-GC
Surrogate: o-Terphenyl		80.2 %	70-130		P0C0909	03/09/20	03/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/09/20	03/11/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 4
0C09002-04 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.8	1.06	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.0 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		88.1 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 5
0C09002-05 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.7 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.99	1.03	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		94.5 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 6
0C09002-06 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.82	1.03	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 7
0C09002-07 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.28	1.03	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.2 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 8
0C09002-08 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.56	1.06	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

BF Sand 9
0C09002-09 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0C0907	03/09/20	03/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.22	1.03	mg/kg dry	1	P0C0905	03/09/20	03/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1002	03/10/20	03/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0C0909	03/09/20	03/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/09/20	03/09/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0907 - General Preparation (GC)

Blank (P0C0907-BLK1)

Prepared & Analyzed: 03/09/20

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	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			

LCS (P0C0907-BS1)

Prepared & Analyzed: 03/09/20

Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130			
Toluene	0.113	0.00100	"	0.100		113	70-130			
Ethylbenzene	0.118	0.00100	"	0.100		118	70-130			
Xylene (p/m)	0.237	0.00200	"	0.200		119	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

LCS Dup (P0C0907-BSD1)

Prepared & Analyzed: 03/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	3.17	20	
Toluene	0.109	0.00100	"	0.100		109	70-130	3.79	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130	4.05	20	
Xylene (p/m)	0.229	0.00200	"	0.200		115	70-130	3.29	20	
Xylene (o)	0.116	0.00100	"	0.100		116	70-130	0.858	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Blank (P0C0907-CCB1)

Prepared & Analyzed: 03/09/20

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		91.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0907 - General Preparation (GC)

Calibration Blank (P0C0907-CCB2)

Prepared & Analyzed: 03/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Blank (P0C0907-CCB3)

Prepared: 03/09/20 Analyzed: 03/10/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	75-125			

Calibration Check (P0C0907-CCV1)

Prepared & Analyzed: 03/09/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	75-125			

Calibration Check (P0C0907-CCV2)

Prepared & Analyzed: 03/09/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0907 - General Preparation (GC)

Calibration Check (P0C0907-CCV3)				Prepared: 03/09/20		Analyzed: 03/10/20				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Matrix Spike (P0C0907-MS1)				Source: 0C09002-01		Prepared & Analyzed: 03/09/20				
Benzene	0.0877	0.00106	mg/kg dry	0.106	ND	82.5	80-120			
Toluene	0.0738	0.00106	"	0.106	ND	69.4	80-120			QM-07
Ethylbenzene	0.0942	0.00106	"	0.106	ND	88.6	80-120			
Xylene (p/m)	0.151	0.00213	"	0.213	ND	70.8	80-120			QM-07
Xylene (o)	0.0858	0.00106	"	0.106	ND	80.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.128		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.128		97.0	75-125			

Matrix Spike Dup (P0C0907-MSD1)				Source: 0C09002-01		Prepared: 03/09/20		Analyzed: 03/10/20			
Benzene	0.0825	0.00106	mg/kg dry	0.106	ND	77.6	80-120	6.09	20		QM-07
Toluene	0.0599	0.00106	"	0.106	ND	56.3	80-120	20.8	20		QM-07
Ethylbenzene	0.0779	0.00106	"	0.106	ND	73.2	80-120	19.0	20		QM-07
Xylene (p/m)	0.129	0.00213	"	0.213	ND	60.8	80-120	15.2	20		QM-07
Xylene (o)	0.0811	0.00106	"	0.106	ND	76.3	80-120	5.54	20		QM-07
Surrogate: 1,4-Difluorobenzene	0.123		"	0.128		96.6	75-125				
Surrogate: 4-Bromofluorobenzene	0.128		"	0.128		100	75-125				

Permian Basin Environmental Lab, L.P.

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

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

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0905 - * DEFAULT PREP *****

LCS (P0C0905-BS1)				Prepared & Analyzed: 03/09/20						
Chloride	416	1.00	mg/kg wet	400		104	80-120			
Matrix Spike (P0C0905-MS1)				Source: 0C06002-02 Prepared & Analyzed: 03/09/20						
Chloride	3320	5.68	mg/kg dry	2270	962	104	80-120			
Matrix Spike (P0C0905-MS2)				Source: 0C09004-03 Prepared & Analyzed: 03/09/20						
Chloride	2970	5.49	mg/kg dry	2200	599	108	80-120			
Matrix Spike Dup (P0C0905-MSD1)				Source: 0C06002-02 Prepared & Analyzed: 03/09/20						
Chloride	3140	5.68	mg/kg dry	2270	962	95.8	80-120	5.71	20	

Batch P0C1002 - * DEFAULT PREP *****

Blank (P0C1002-BLK1)				Prepared & Analyzed: 03/10/20						
% Moisture	ND	0.1	%							
Duplicate (P0C1002-DUP1)				Source: 0C08004-04 Prepared & Analyzed: 03/10/20						
% Moisture	11.0	0.1	%		15.0			30.8	20	
Duplicate (P0C1002-DUP2)				Source: 0C09003-12 Prepared & Analyzed: 03/10/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0C1002-DUP3)				Source: 0C09006-10 Prepared & Analyzed: 03/10/20						
% Moisture	16.0	0.1	%		15.0			6.45	20	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0909 - TX 1005

Blank (P0C0909-BLK1)

Prepared & Analyzed: 03/09/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

LCS (P0C0909-BS1)

Prepared & Analyzed: 03/09/20

C6-C12	974	25.0	mg/kg wet	1000		97.4	75-125			
>C12-C28	1000	25.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	57.9		"	50.0		116	70-130			

LCS Dup (P0C0909-BSD1)

Prepared & Analyzed: 03/09/20

C6-C12	955	25.0	mg/kg wet	1000		95.5	75-125	1.95	20	
>C12-C28	982	25.0	"	1000		98.2	75-125	1.82	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	52.7		"	50.0		105	70-130			

Calibration Blank (P0C0909-CCB1)

Prepared & Analyzed: 03/09/20

C6-C12	16.4		mg/kg wet							
>C12-C28	6.41		"							
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

Calibration Blank (P0C0909-CCB2)

Prepared & Analyzed: 03/09/20

C6-C12	15.4		mg/kg wet							
>C12-C28	6.40		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.2		"	50.0		120	70-130			

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Cowtown South-Select Energy
Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0909 - TX 1005

Calibration Check (P0C0909-CCV1)

Prepared & Analyzed: 03/09/20

C6-C12	503	25.0	mg/kg wet	500		101	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Calibration Check (P0C0909-CCV2)

Prepared & Analyzed: 03/09/20

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	544	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			

Matrix Spike (P0C0909-MS1)

Source: 0C09003-11

Prepared: 03/09/20 Analyzed: 03/10/20

C6-C12	1090	26.0	mg/kg dry	1040	16.5	103	75-125			
>C12-C28	1130	26.0	"	1040	ND	108	75-125			
Surrogate: 1-Chlorooctane	116		"	104		112	70-130			
Surrogate: o-Terphenyl	54.9		"	52.1		105	70-130			

Matrix Spike Dup (P0C0909-MSD1)

Source: 0C09003-11

Prepared: 03/09/20 Analyzed: 03/10/20

C6-C12	1080	26.0	mg/kg dry	1040	16.5	102	75-125	0.727	20	
>C12-C28	1120	26.0	"	1040	ND	108	75-125	0.411	20	
Surrogate: 1-Chlorooctane	122		"	104		117	70-130			
Surrogate: o-Terphenyl	56.1		"	52.1		108	70-130			

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

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

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/13/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-03

Midland TX, 79710

Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

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

Appendix F
Photographs

Closure Report
Select Energy - Cowntown South
May 8, 2020



Spill area viewing northeast



Spill area viewing south

Closure Report
Select Energy - Cowntown South
May 8, 2020



Spill area viewing west

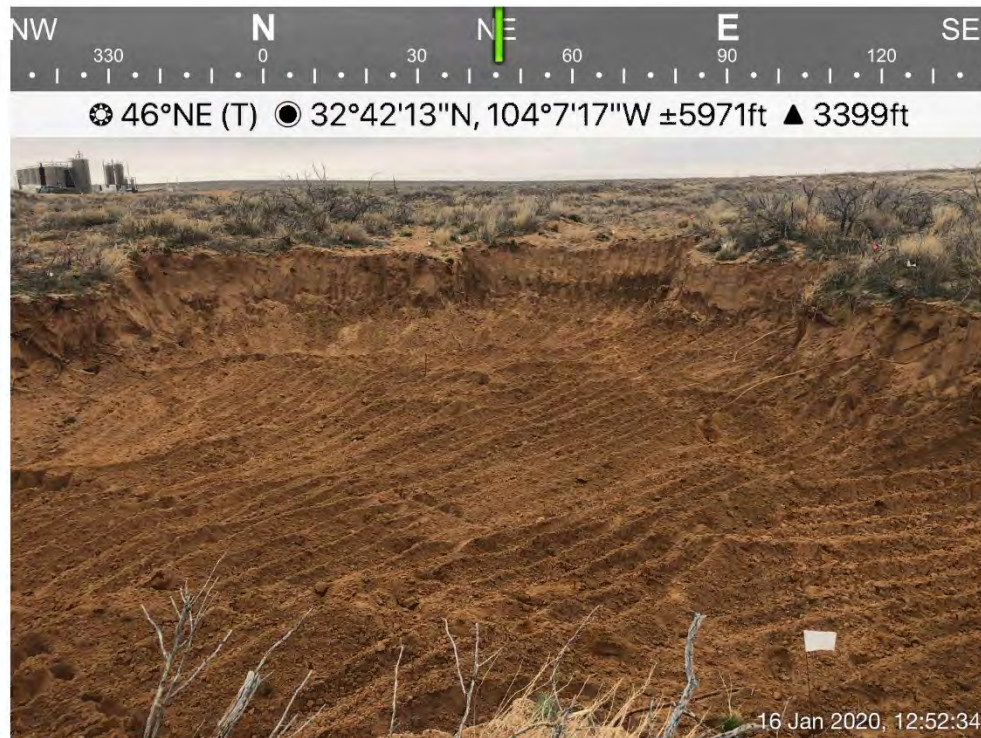


Spill area viewing southwest

Closure Report
Select Energy - Cowntown South
May 8, 2020



Excavated soil from HA-2 through HA-5 viewing west



Excavated soil from HA-2 through HA-5 viewing northeast

Closure Report
Select Energy - Cowntown South
May 8, 2020

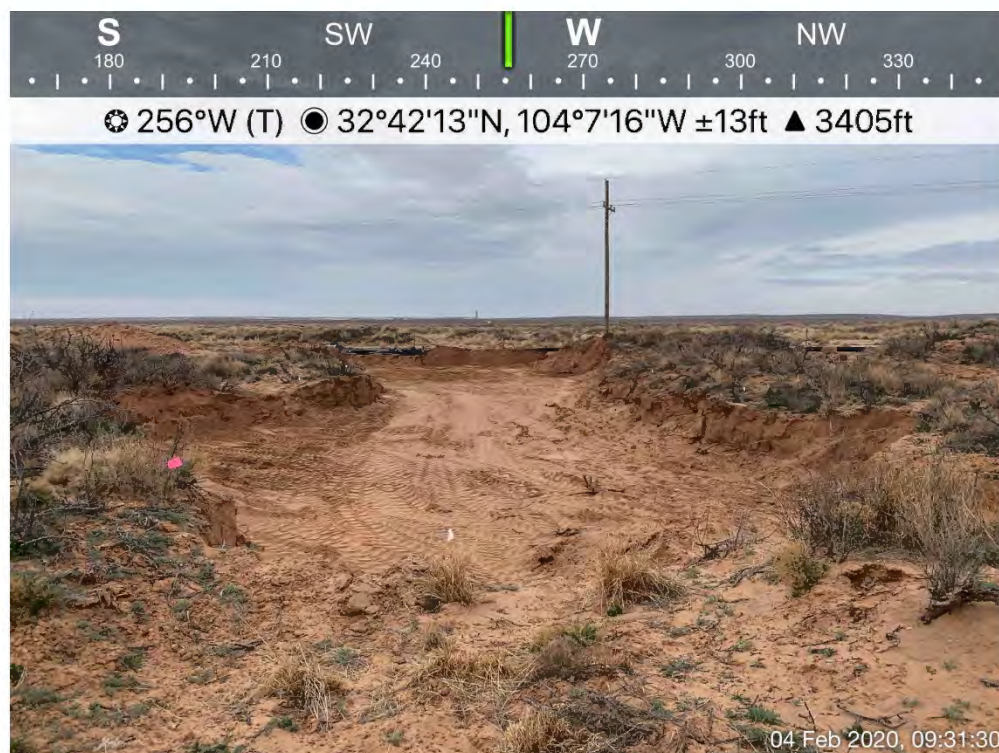


Excavated soil from HA-8 viewing southwest

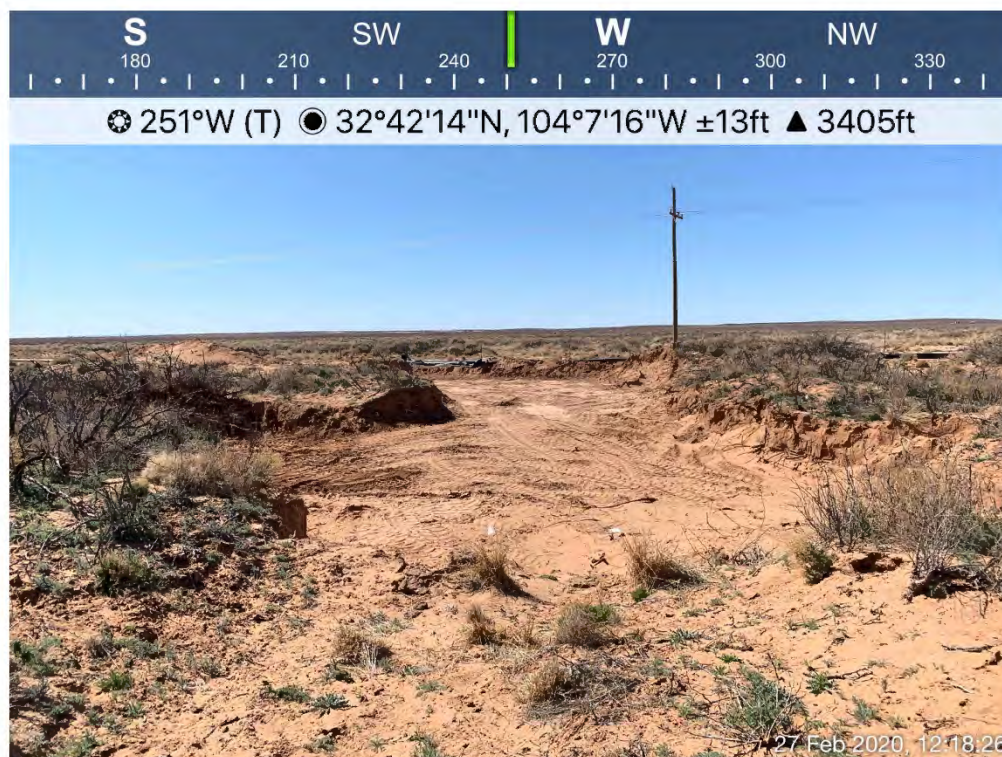


Excavated soil from 2.3 through 2.7, 2.9, and 2.11 through 2.16 viewing northeast

Closure Report
Select Energy - Cowtown South
May 8, 2020



Excavated soil from 2.3 through 2.7, 2.9, 2.11 through 2.16, and 4.2 viewing west



Excavated soil from 4.2 viewing west – southwest

Closure Report
Select Energy - Cowntown South
May 8, 2020



Backfilled and seeded area viewing north



Backfilled and seeded area viewing south

Closure Report
Select Energy - Cowntown South
May 8, 2020



Backfilled and seeded area viewing west

Incident ID	nRM2006451912
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Halie Butler Title: Sr. Corporate Compliance and Environmental Manager

Signature: _____ Date: _____

email: HButler@selectenergy.com Telephone: 281-467-3153

OCD Only

Received by: Robert Hamlet Date: 3/29/2021

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

Closure Approved by: Robert Hamlet Date: 3/29/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 10861

CONDITIONS OF APPROVAL

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX76240			OGRID: 289068	Action Number: 10861	Action Type: C-141
OCD Reviewer	Condition				
rhamlet	We have received your closure report and final C-141 for Incident #NRM2006451912 COWTOWN SOUTH, thank you. This closure is approved.				