

Incident ID	nAPP2304657101
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>>61</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: <i>Each of the following items must be included in the report.</i> ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☒ Field data ☒ Data table of soil contaminant concentration data ☒ Depth to water determination ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☒ Boring or excavation logs ☒ Photographs including date and GIS information ☒ Topographic/Aerial maps ☒ Laboratory data including chain of custody

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

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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: Mark Ritchie Title: HSE Manager

Signature: Mark Ritchie Date: 7/18/23

email: mritchie@silverbackexp.com Telephone: 210-874-2406

OCD Only

Received by: Shelly Wells Date: 7/18/2023

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nAPP2304657101
Delineation Report and Remediation Plan
Boyd X - Silverback
Produced Water Release
Eddy County, New Mexico

Latitude: N 32.66071°
Longitude: W -104.43663°

LAI Project No. 23-0105-01

June 12, 2023

Prepared for:
Select Energy Services, LLC
5721 NM 132nd Street
Oklahoma City, Oklahoma 43142

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



Mark Larson
Certified Professional Geologist #10490



Daniel St. Germain
Staff Geologist

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Delineation Report and Remediation Plan
Select Energy Services LLC, Boyd X - Silverback
Produced Water Release
June 12, 2023

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Select Energy Services, LLC (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II in Artesia, New Mexico, for a produced water release at the Boyd X - Silverback (Site) located in Unit M (NW/4 of SE/4), Section 13, Township 19 South, Range 25 East in Eddy County, New Mexico. The geodetic position is North 32.66071°, and West -104.43663°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on February 15, 2023, and was the result of human error during water transfer operations. About 12 barrels (bbl) of produced water were released into the pasture on privately owned property. No fluid was recovered from the release. The spill covers approximately 22,162 square feet, or about 0.51 acres. The notification of release was submitted to NMOCD District II on February 15, 2023, and assigned incident number nAPP2304657101. Appendix A presents the notification of release.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,394 feet above mean sea level (msl).
- Surface topography gently slopes to the southeast.
- There are no surface water features within 300 feet of the Site.
- USGS karst potential data designates the area as medium risk.
- Soils in the spill area are designated as the Regan-Upton association, where the Reagan setting consists of 0-60 inches of loam, and the Reagan setting consists of 0-13 inches of gravelly loam underlain by 13-21 inches cemented material (caliche), and 21-60 inches very gravelly loam.
- Surface geology is Holocene to lower Pleistocene Piedmont alluvial deposits.
- Groundwater is greater than 6 feet below ground surface (bgs), based on a dry groundwater bore drilled to 61 feet bgs on May 17, 2023, and gauged more than 72 hours after completion.

Appendix B presents a karst potential map. Appendix C presents the S-12 boring log.

1.3 Remediation Standards

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater 51 to 100 feet bgs:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 10,000 mg/Kg

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Furthermore, 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 February 20, 2023, LAI personnel used a stainless-steel hand auger to collect soil samples from 16 locations inside the spill area (S-1 through S-16) and from four locations outside the spill area (north, south, east, and west). Samples were collected from 0 to 0.5 and 0.5 to 1-foot bgs at each location. The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. Xenco analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M, and chloride by EPA Method 300.

Benzene, BTEX, and TPH were below the NMOCD delineation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectively. Chloride exceeded the NMOCD delineation limit of 600 mg/Kg in the lowermost sample from following 14 sample locations:

Sample ID	Depth (ft)	Chloride (mg/Kg)
S-1	0.5 - 1	8,140
S-2	0.5 - 1	2,030
S-3	0.5 - 1	1,470
S-4	0.5 - 1	4,360
S-5	0.5 - 1	995
S-6	0.5 - 1	4,340
S-7	0.5 - 1	1,400
S-8	0.5 - 1	10,200
S-9	0.5 - 1	647
S-10	0.5 - 1	957
S-11	0.5 - 1	5,420
S-12	0.5 - 1	4,350
S-13	0.5 - 1	1,680
S-14	0.5 - 1	2,050

On April 4 and 5, 2023, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate chloride at sample locations S-1 through S-14. The samples were collected from about one (1), three (3), five (5), and ten (10), fifteen (15) feet bgs, depending on chloride field analysis and subsurface conditions. The samples were delivered under chain-of-custody and preservation to Permian Basin Environmental Lab (PBEL) in Midland, Texas and analyzed for BTEX, TPH, and chloride. PBEL reported that all samples were below the delineation limits for BTEX and TPH. Chloride was reported above the delineation limit of 600 mg/Kg in the lowermost sample from sample locations S-9 (3,020 mg/Kg) and S-12 (3,650 mg/Kg).

On May 17, 2023, Scarborough Drilling, Inc. (SDI), under the direction of LAI personnel, used an air rotary drilling rig to collect samples at sample locations S-9 from 15 and 20 feet bgs, and S-12 from 20 and 25

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feet bgs. The samples were delivered under chain-of-custody and preservation to PBEL, and analyzed for BTEX, TPH, and chloride. PBEL reported benzene, BTEX, TPH and chloride were below the delineation standards in Table 1 of 19.15.29 NMAC and demonstrates that the release was fully delineated for groundwater between 51 and 100 feet bgs. Figure 2 presents an aerial map showing the sample locations. Table 2 presents the delineation soil sample analytical data. Appendix D presents the laboratory reports.

3.0 REMEDIATION PLAN

Select proposes the following remedial actions:

- Excavate about 2,895 cubic yards of soil from an area of approximately 24,594 square feet, at depths varying between one and four feet bgs, including:
 - 3,000 square feet from the area encompassing S-15 and S-16 to a depth of 1-foot bgs.
 - 4,036 square feet from the area encompassing S-9 to a depth of 3 feet bgs.
 - 11,513 square feet from the area encompassing S-4 through S-6 and S-11 through S-14 to a depth of 3 feet bgs.
 - 2,537 square feet from the area encompassing S-7, S-8, and S-10 to a depth of 4 feet bgs.
 - 3,508 square feet encompassing S-1 through S-3 to a depth of about 4.1 feet bgs.
- Collect about 140 -5-point composite confirmation samples from the bottom and sidewalls of the excavation, or approximately every 200 square feet.
- Analyze confirmation samples for BTEX, TPH, and chloride.
- Backfill excavation with clean soil to surface level, assuming all confirmation samples are below NMOCD closure criteria.
- Seed backfilled areas with BLM mix #2.
- Prepare closure report for submittal to the NMOCD.

Figure 3 presents the proposed excavation map.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Boyd X - Silverback
Eddy County, New Mexico
32° 39' 38.58" N, 104° 26' 11.88" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-1	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	13,100
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	8,140
	1	4/4/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	5,700
	3	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	890
	5	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	566
	10	4/4/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	502
	15	4/4/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	493
S-2	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11,500
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,030
	1	4/4/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	7,530
	3	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	695
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	242
	10	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	417
	15	4/4/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	138
S-3	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	11,900
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,470
	1	4/4/2023 ²	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	79.7
	3	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	3,440
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	127
	10	4/4/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	795
	15	4/4/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	494
S-4	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	9,290

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Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	4,360
	1	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	7,820
	3	4/4/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	79.3
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	30.8
	10	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	117
S-5	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	10,300
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	995
	1	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	7,850
	3	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	70.3
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	42.8
	10	4/4/2023 ²	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	13.0
S-6	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	13,400
	0.5 - 1	2/20/2023 ¹	In-Situ	**	**	<49.9	<49.9	<49.9	<49.9	4,340
	1	4/4/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	13,300
	3	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	347
	5	4/4/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	93.7
	10	4/4/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	63.3
S-7	0 - 0.5	2/20/2023 ¹	In-Situ	**	**	<49.9	<49.9	<49.9	<49.9	12,000
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,400
	1	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	17,300
	3	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	2,240
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	31.6

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Remediation Level:				10	50	100/2,500				600/10,000
	10	4/4/2023 ²	In-Situ	<0.00120	<0.00241	<30.1	<30.1	<30.1	<30.1	18.1
S-8	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	10,900
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	10,200
	1	4/4/2023 ²	In-Situ	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	13,800
	3	4/4/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	5,010
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	891
	10	4/4/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	138
S-9	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	8,310
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	647
	1	4/4/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	9,690
	3	4/4/2023 ²	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	336
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	337
	10	4/4/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	3,020
	15	5/17/2023 ²	In-Situ	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	3.43
	20	5/17/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	<1.18
S-10	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	11,000
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	957
	1	4/4/2023 ²	In-Situ	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	3,610
	3	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	711
	5	4/4/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	179
	10	4/4/2023 ²	In-Situ	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	84.0

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Remediation Level:				10	50	100/2,500				600/10,000
S-11	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	12,000
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	5,420
	1	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	1,010
	3	4/4/2023 ²	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	52.4
	5	4/4/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	117
	10	4/4/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	11.2
S-12	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	12,200
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	4,350
	1	4/5/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	1,810
	3	4/5/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	328
	5	4/5/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	334
	10	4/5/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	1,690
	15	4/5/2023 ²	In-Situ	<0.00122	<0.00244	<30.5	<30.5	<30.5	<30.5	3,650
	20	5/17/2023 ²	In-Situ	<0.00120	<0.00241	<30.1	<30.1	<30.1	<30.1	<1.20
	25	5/17/2023 ²	In-Situ	<0.00120	<0.00241	<30.1	<30.1	<30.1	<30.1	<1.20
S-13	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	9,360
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	1,680
	1	4/5/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	997
	3	4/5/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	424
	5	4/5/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	159
	10	4/5/2023 ²	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	28.2

Table 1
Delineation Soil Sample Analytical Data Summary
Boyd X - Silverback
Eddy County, New Mexico
32° 39' 38.58" N, 104° 26' 11.88" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
S-14	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	10,600
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	2,050
	1	4/5/2023 ²	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	4,960
	3	4/5/2023 ²	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	79.5
	5	4/5/2023 ²	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	55.8
	10	4/5/2023 ²	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	12.1
	15	4/5/2023 ²	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	36.7
S-15	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	3,220
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	255
S-16	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	715
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	227
North	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	53.4
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	12.9
South	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	8.23
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	7.95
East	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	23.5
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	29.7

Table 1
Delineation Soil Sample Analytical Data Summary
Boyd X - Silverback
Eddy County, New Mexico
32° 39' 38.58" N, 104° 26' 11.88" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/10,000
West	0 - 0.5	2/20/2023 ¹	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	22.7
	0.5 - 1	2/20/2023 ¹	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	11.1

Notes:

¹ : analysis performed by Eurofins - Xenco Laboratories (Xenco) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (chloride)

² : analysis performed by Permian Basin Environmental Lab (PBEL) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (chloride)

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

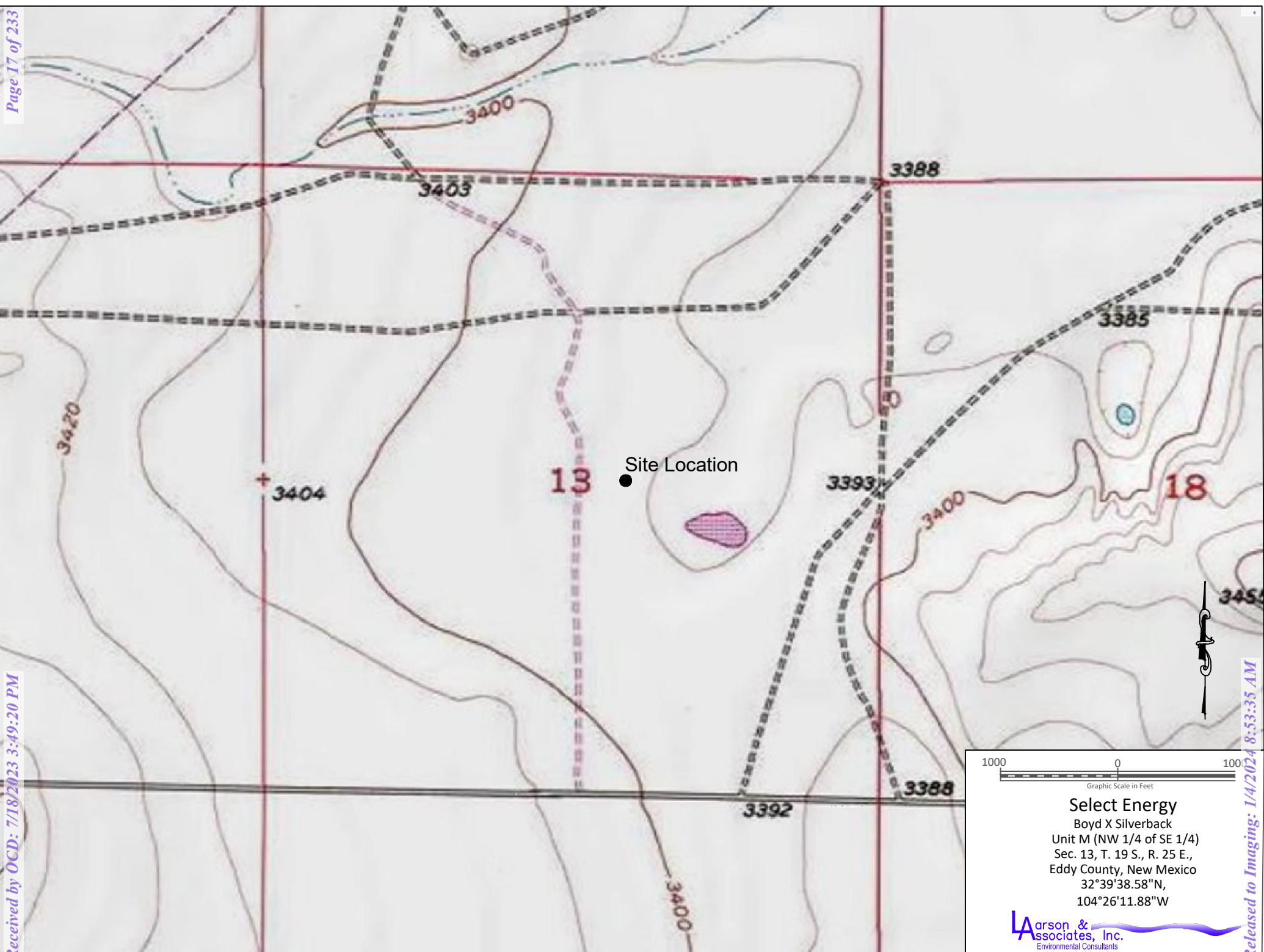
<: indicates concentration less than analytical method reporting limit

Depth in feet below ground surface (bgs)

**: Laboratory unable to analyze sample within parameter hold time

Bold and Highlighted exceeds NMOCD remediation level

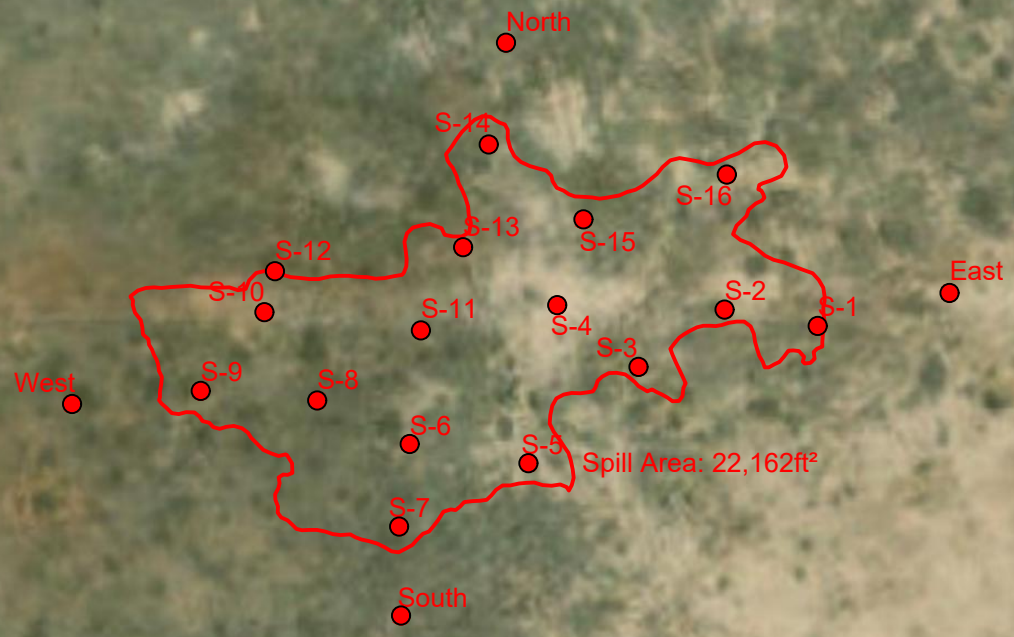
Figures



Select Energy
Boyd X Silverback
Unit M (NW 1/4 of SE 1/4)
Sec. 13, T. 19 S., R. 25 E.,
Eddy County, New Mexico
32°39'38.58"N,
104°26'11.88"W



Figure 1 - Topographic Map



Legend

- Soil Sample Location
- Spill Location

75 0 75
Graphic Scale in Feet

Select Energy
Boyd X Silverback
Unit M (NW 1/4 of SE 1/4)
Sec. 13, T. 19 S., R. 25 E.,
Eddy County, New Mexico
32°39'38.58"N,
104°26'11.88"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map

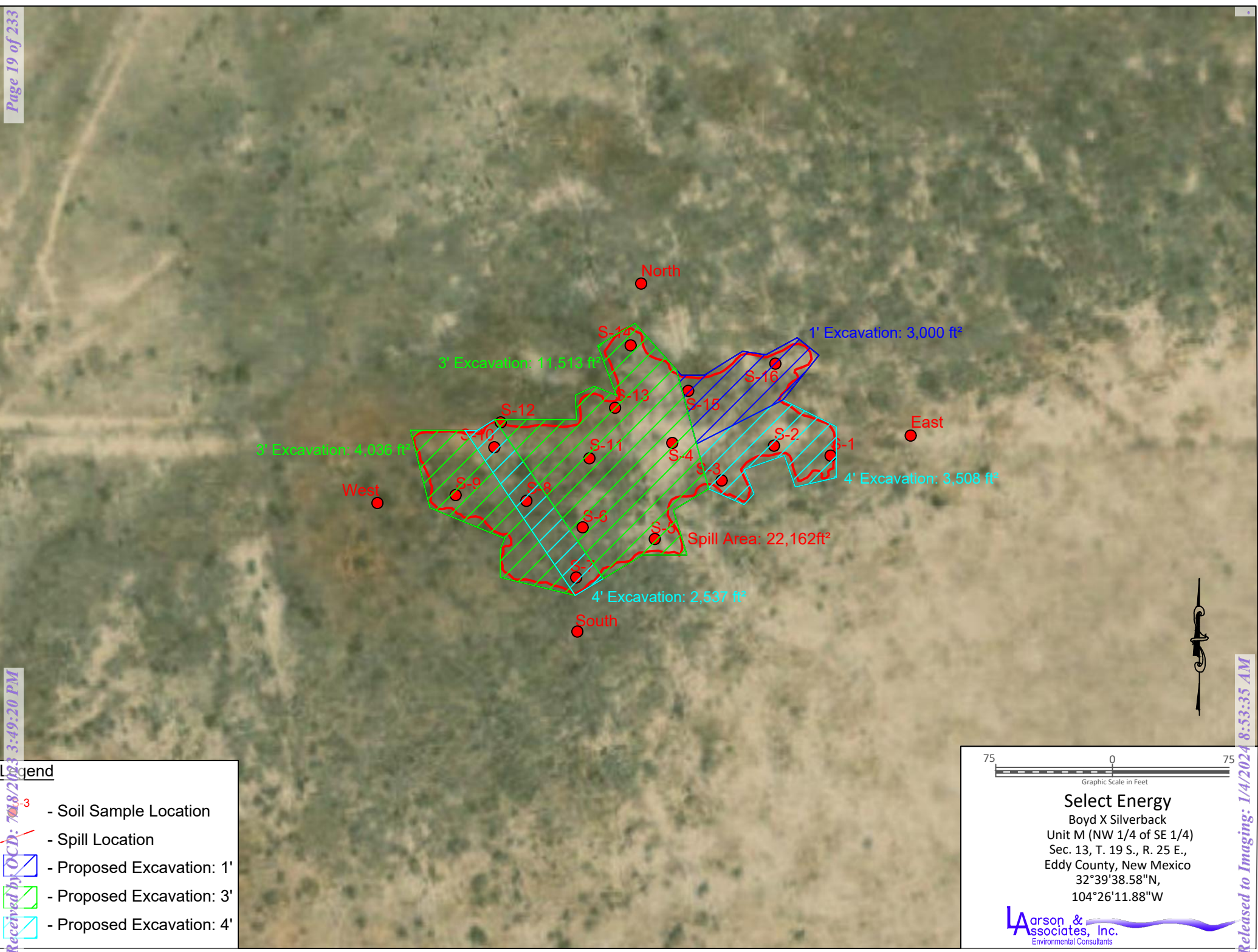


Figure 3 - Aerial Map Showing Proposed Excavations

Appendix A
Notification of Release

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

QUESTIONS

Action 186759

QUESTIONS

Operator: Silverback Operating II, LLC IH10 West, Suite 201 San Antonio, TX 78257	OGRID: 330968
	Action Number: 186759
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Water Transfer to Boyd X
Date Release Discovered	02/15/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Pipeline (Any) Other (Specify) Released: 12 BBL Recovered: 0 BBL Lost: 12 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Material was recycled produced water.

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

QUESTIONS, Page 2
Action 186759

QUESTIONS (continued)

Operator: Silverback Operating II, LLC IH10 West, Suite 201 San Antonio, TX 78257	OGRID: 330968
	Action Number: 186759
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 186759

ACKNOWLEDGMENTS

Operator: Silverback Operating II, LLC IH10 West, Suite 201 San Antonio, TX 78257	OGRID: 330968
	Action Number: 186759
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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

CONDITIONS

Action 186759

CONDITIONS

Operator: Silverback Operating II, LLC IH10 West, Suite 201 San Antonio, TX 78257	OGRID: 330968
	Action Number: 186759
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
mritchie	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/15/2023

Appendix B

Karst Risk Potential

Boyd X - Silverback

Medium

Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: Finish: 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																		
	5	Silty Clay, 7.5YR 4/3, Brown	CL																
	10	Caliche, 2.5YR 7/4, Pink with Gypsum	Caliche																
	15	Sand, 7.5YR 6/6, Reddish Yellow, Silt to Very Fine Quartz Grained Sand, Moderately Sorted, Sub Rounded to Rounded with Caliche Clast and Gypsum	SM																
	20																		
	25	7.5YR 5/6, Strong Brown, Silt to Very Fine Quartz Grained Sand, Moderately Sorted, Sub Rounded to Rounded with Caliche Clast and Large Gypsum Crystals(1-8mm)																	
	30	7.5YR 5/6, Strong Brown, Silt to Very Fine Quartz Grained Sand, Moderately Sorted, Sub Rounded to Rounded, Very High Gypsum Content																	
	35																		
	40		SM																

☐ 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/ 23-0105-01HOLE DIAMETER : 5"LOCATION : Boyd X SilverbackLAI GEOLOGIST : D. St. GermainDRILLING CONTRACTOR : SDCDRILLING METHOD : Air Rotary

 DRILL DATE :
05/17/2023

 BORING NUMBER :
S-12

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: Finish: 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								
	45	Gravelly Sand, 10YR 7/3, Very Pale Brown, Very Fine Quartz Grained Sand to Coarse, Poorly Sorted, Angular to Sub Angular with Gypsum	SP																		
	50																				
	55				Silty Clay, 5YR 7/1, Light Gray with Gypsum	CL															
	60	Total Depth: 60' Dry at 61 feet bgs																			
	65																				
	70																				
	75																				
	80																				
	85																				

☐ ONE CONTINUOUS AUGER SAMPLER	 WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>Select Energy/ 23-0105-01</u>
☐ STANDARD PENETRATION TEST	 LABORATORY TEST LOCATION	HOLE DIAMETER : <u>5"</u>
☐ UNDISTURBED SAMPLE	 PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>Boyd X Silverback</u>
 WATER TABLE (24 HRS)	NR NO RECOVERY	LAI GEOLOGIST : <u>D. St. Germain</u>

	DRILL DATE : 05/17/2023	BORING NUMBER : S-12	DRILLING CONTRACTOR : <u>SDC</u>
			DRILLING METHOD : <u>Air Rotary</u>

Appendix D

Laboratory Reports



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 3/8/2023 3:35:00 PM Revision 1

JOB DESCRIPTION

Boyd X-Silverback
SDG NUMBER 23-0105-01

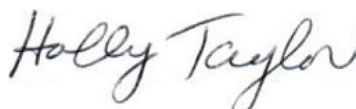
JOB NUMBER

880-24991-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
3/8/2023 3:35:00 PM
Revision 1

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Laboratory Job ID: 880-24991-1
SDG: 23-0105-01

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Job ID: 880-24991-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-24991-1

Revision

The report being provided is a revision of the original report sent on 3/8/2023. The report (revision 1) is being revised to remove BTEX results for Samples 12 and 13 as they were run out of hold time per Robert Nelson (email).

Receipt

The samples were received on 2/21/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3° C.

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-47605 recovered above the upper control limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-47338 and analytical batch 880-47605 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47337 and analytical batch 880-47604 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5, 0.5-1 (880-24991-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-47723 recovered above the upper control limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-47723 recovered above the upper control limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47631 and analytical batch 880-48071 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-7, 0-0.5 (880-24991-13) and (890-4174-A-1-I). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were prepared outside of preparation holding time due instrumentation errors and prioritizing rushes in error: S-6, 0.5-1 (880-24991-12) and S-7, 0-0.5 (880-24991-13).

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

GC Semi VOA

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-47230 and analytical batch 880-47239 was outside the upper control limits.

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-47229 and analytical batch 880-47219 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-1, 0.5-1 (880-24991-2), S-2, 0-0.5

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Job ID: 880-24991-1 (Continued)

Laboratory: Eurofins Midland (Continued)

(880-24991-3) and (880-24991-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47099 and analytical batch 880-47301 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47100 and 880-47100 and analytical batch 880-47302 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-1, 0-0.5

Lab Sample ID: 880-24991-1

Date Collected: 02/20/23 11:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 12:43	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		02/27/23 14:56	03/02/23 12:43	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		02/27/23 14:56	03/02/23 12:43	1
m,p-Xylenes	<0.00398	U F1	0.00398	mg/Kg		02/27/23 14:56	03/02/23 12:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 12:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/27/23 14:56	03/02/23 12:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/27/23 14:56	03/02/23 12:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 21:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 21:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	02/25/23 09:52	02/25/23 21:17	1
o-Terphenyl (Surr)	105		70 - 130	02/25/23 09:52	02/25/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13100	F1	250	mg/Kg			02/26/23 18:43	50

Client Sample ID: S-1, 0.5-1

Lab Sample ID: 880-24991-2

Date Collected: 02/20/23 11:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 13:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 13:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 13:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/27/23 14:56	03/02/23 13:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 13:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/27/23 14:56	03/02/23 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/27/23 14:56	03/02/23 13:03	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/27/23 14:56	03/02/23 13:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-1, 0.5-1

Lab Sample ID: 880-24991-2

Date Collected: 02/20/23 11:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 22:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 22:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			02/25/23 09:52	02/25/23 22:22	1
o-Terphenyl (Surr)	131	S1+	70 - 130			02/25/23 09:52	02/25/23 22:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8140		49.9	mg/Kg			02/26/23 19:01	10

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-24991-3

Date Collected: 02/20/23 11:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			02/27/23 14:56	03/02/23 13:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/27/23 14:56	03/02/23 13:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 22:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 22:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-24991-3

Date Collected: 02/20/23 11:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			02/25/23 09:52	02/25/23 22:44	1
o-Terphenyl (Surr)	132	S1+	70 - 130			02/25/23 09:52	02/25/23 22:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11500		99.4	mg/Kg			02/26/23 19:07	20

Client Sample ID: S-2, 0.5-1

Lab Sample ID: 880-24991-4

Date Collected: 02/20/23 11:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			02/27/23 14:56	03/02/23 13:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/27/23 14:56	03/02/23 13:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			02/25/23 09:52	02/25/23 23:06	1
o-Terphenyl (Surr)	112		70 - 130			02/25/23 09:52	02/25/23 23:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		25.3	mg/Kg			02/26/23 19:14	5

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-3, 0-0.5

Lab Sample ID: 880-24991-5

Date Collected: 02/20/23 12:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 14:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 14:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 14:05	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/27/23 14:56	03/02/23 14:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 14:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/27/23 14:56	03/02/23 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	02/27/23 14:56	03/02/23 14:05	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/27/23 14:56	03/02/23 14:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 23:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	02/25/23 09:52	02/25/23 23:28	1
o-Terphenyl (Surr)	104		70 - 130	02/25/23 09:52	02/25/23 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11900		99.8	mg/Kg			02/26/23 19:20	20

Client Sample ID: S-3, 0.5-1

Lab Sample ID: 880-24991-6

Date Collected: 02/20/23 12:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:26	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 14:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/27/23 14:56	03/02/23 14:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/27/23 14:56	03/02/23 14:26	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-3, 0.5-1

Lab Sample ID: 880-24991-6

Date Collected: 02/20/23 12:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/25/23 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			02/25/23 09:52	02/25/23 23:49	1
o-Terphenyl (Surr)	111		70 - 130			02/25/23 09:52	02/25/23 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		25.1	mg/Kg			02/26/23 19:38	5

Client Sample ID: S-4, 0-0.5

Lab Sample ID: 880-24991-7

Date Collected: 02/20/23 12:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			02/27/23 14:56	03/02/23 14:47	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/27/23 14:56	03/02/23 14:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 00:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 00:11	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-4, 0-0.5

Lab Sample ID: 880-24991-7

Date Collected: 02/20/23 12:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			02/25/23 09:52	02/26/23 00:11	1
o-Terphenyl (Surr)	109		70 - 130			02/25/23 09:52	02/26/23 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9290		99.4	mg/Kg			02/26/23 19:44	20

Client Sample ID: S-4, 0.5-1

Lab Sample ID: 880-24991-8

Date Collected: 02/20/23 12:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/27/23 14:56	03/02/23 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			02/27/23 14:56	03/02/23 15:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130			02/27/23 14:56	03/02/23 15:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			02/25/23 09:52	02/26/23 00:32	1
o-Terphenyl (Surr)	115		70 - 130			02/25/23 09:52	02/26/23 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4360		49.8	mg/Kg			02/26/23 19:50	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-5, 0-0.5

Lab Sample ID: 880-24991-9

Date Collected: 02/20/23 13:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 15:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 15:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 15:28	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/27/23 14:56	03/02/23 15:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 15:28	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/27/23 14:56	03/02/23 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/27/23 14:56	03/02/23 15:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/27/23 14:56	03/02/23 15:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	02/25/23 09:52	02/26/23 00:54	1
o-Terphenyl (Surr)	112		70 - 130	02/25/23 09:52	02/26/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10300		99.0	mg/Kg			02/26/23 19:57	20

Client Sample ID: S-5, 0.5-1

Lab Sample ID: 880-24991-10

Date Collected: 02/20/23 13:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 16:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 16:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 16:40	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 16:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:56	03/02/23 16:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:56	03/02/23 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/27/23 14:56	03/02/23 16:40	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	02/27/23 14:56	03/02/23 16:40	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-5, 0.5-1

Lab Sample ID: 880-24991-10

Date Collected: 02/20/23 13:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			02/25/23 09:52	02/26/23 01:15	1
o-Terphenyl (Surr)	123		70 - 130			02/25/23 09:52	02/26/23 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	995		5.02	mg/Kg			02/26/23 20:03	1

Client Sample ID: S-6, 0-0.5

Lab Sample ID: 880-24991-11

Date Collected: 02/20/23 13:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/03/23 09:48	03/03/23 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			03/03/23 09:48	03/03/23 15:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/03/23 09:48	03/03/23 15:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:58	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-6, 0-0.5

Lab Sample ID: 880-24991-11

Date Collected: 02/20/23 13:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			02/25/23 09:52	02/26/23 01:58	1
o-Terphenyl (Surr)	114		70 - 130			02/25/23 09:52	02/26/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13400	F1	250	mg/Kg			02/26/23 20:09	50

Client Sample ID: S-6, 0.5-1

Lab Sample ID: 880-24991-12

Date Collected: 02/20/23 13:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			02/25/23 09:52	02/26/23 02:20	1
o-Terphenyl (Surr)	106		70 - 130			02/25/23 09:52	02/26/23 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4340		50.5	mg/Kg			02/26/23 20:27	10

Client Sample ID: S-7, 0-0.5

Lab Sample ID: 880-24991-13

Date Collected: 02/20/23 14:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			02/25/23 09:52	02/26/23 02:42	1
o-Terphenyl (Surr)	114		70 - 130			02/25/23 09:52	02/26/23 02:42	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-7, 0-0.5

Lab Sample ID: 880-24991-13

Date Collected: 02/20/23 14:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000		248	mg/Kg			02/26/23 20:33	50

Client Sample ID: S-7, 0.5-1

Lab Sample ID: 880-24991-14

Date Collected: 02/20/23 14:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 17:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		03/03/23 09:48	03/03/23 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 17:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/03/23 09:48	03/03/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	03/03/23 09:48	03/03/23 17:30	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/03/23 09:48	03/03/23 17:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	02/25/23 09:52	02/26/23 03:03	1
o-Terphenyl (Surr)	112		70 - 130	02/25/23 09:52	02/26/23 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.1	mg/Kg			02/26/23 20:52	5

Client Sample ID: S-8, 0-0.5

Lab Sample ID: 880-24991-15

Date Collected: 02/20/23 14:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 17:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 17:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 17:50	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-8, 0-0.5

Lab Sample ID: 880-24991-15

Date Collected: 02/20/23 14:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 17:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 17:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/03/23 09:48	03/03/23 17:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/03/23 09:48	03/03/23 17:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 03:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 03:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			02/25/23 09:52	02/26/23 03:25	1
o-Terphenyl (Surr)	102		70 - 130			02/25/23 09:52	02/26/23 03:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10900		99.0	mg/Kg			02/26/23 20:58	20

Client Sample ID: S-8, 0.5-1

Lab Sample ID: 880-24991-16

Date Collected: 02/20/23 14:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			03/03/23 09:48	03/03/23 18:11	1
1,4-Difluorobenzene (Surr)	106		70 - 130			03/03/23 09:48	03/03/23 18:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-8, 0.5-1

Lab Sample ID: 880-24991-16

Date Collected: 02/20/23 14:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			02/25/23 09:52	02/26/23 03:47	1
o-Terphenyl (Surr)	112		70 - 130			02/25/23 09:52	02/26/23 03:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10200		100	mg/Kg			02/26/23 21:04	20

Client Sample ID: S-9, 0-0.5

Lab Sample ID: 880-24991-17

Date Collected: 02/20/23 15:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/03/23 09:48	03/03/23 18:31	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/03/23 09:48	03/03/23 18:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 04:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 04:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			02/25/23 09:52	02/26/23 04:08	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-9, 0-0.5

Lab Sample ID: 880-24991-17

Date Collected: 02/20/23 15:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	113		70 - 130	02/25/23 09:52	02/26/23 04:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8310		49.5	mg/Kg			02/26/23 21:10	10

Client Sample ID: S-9, 0.5-1

Lab Sample ID: 880-24991-18

Date Collected: 02/20/23 15:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/03/23 09:48	03/03/23 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			03/03/23 09:48	03/03/23 18:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/03/23 09:48	03/03/23 18:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			02/25/23 09:52	02/26/23 04:30	1
o-Terphenyl (Surr)	111		70 - 130			02/25/23 09:52	02/26/23 04:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647		24.9	mg/Kg			02/26/23 21:17	5

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-10, 0-0.5

Lab Sample ID: 880-24991-19

Date Collected: 02/20/23 15:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:12	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 19:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/03/23 09:48	03/03/23 19:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/03/23 09:48	03/03/23 19:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/26/23 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	02/25/23 09:52	02/26/23 04:52	1
o-Terphenyl (Surr)	108		70 - 130	02/25/23 09:52	02/26/23 04:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		100	mg/Kg			02/26/23 21:23	20

Client Sample ID: S-10, 0.5-1

Lab Sample ID: 880-24991-20

Date Collected: 02/20/23 15:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:33	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 19:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/03/23 09:48	03/03/23 19:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/03/23 09:48	03/03/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/03/23 09:48	03/03/23 19:33	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/03/23 09:48	03/03/23 19:33	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-10, 0.5-1

Lab Sample ID: 880-24991-20

Date Collected: 02/20/23 15:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 05:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 05:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:52	02/26/23 05:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			02/25/23 09:52	02/26/23 05:13	1
o-Terphenyl (Surr)	105		70 - 130			02/25/23 09:52	02/26/23 05:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	957		4.96	mg/Kg			02/26/23 21:29	1

Client Sample ID: S-11, 0-0.5

Lab Sample ID: 880-24991-21

Date Collected: 02/20/23 16:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
m,p-Xylenes	<0.00400	U F1	0.00400	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
Xylenes, Total	<0.00400	U F1	0.00400	mg/Kg		02/27/23 14:58	03/02/23 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			02/27/23 14:58	03/02/23 13:58	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/27/23 14:58	03/02/23 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/02/23 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 12:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 12:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-11, 0-0.5

Lab Sample ID: 880-24991-21

Date Collected: 02/20/23 16:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			02/25/23 09:56	02/26/23 12:03	1
o-Terphenyl (Surr)	89		70 - 130			02/25/23 09:56	02/26/23 12:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000	F1	100	mg/Kg			02/26/23 22:18	20

Client Sample ID: S-11, 0.5-1

Lab Sample ID: 880-24991-22

Date Collected: 02/20/23 16:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/27/23 14:58	03/02/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/27/23 14:58	03/02/23 14:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/27/23 14:58	03/02/23 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/02/23 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 13:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 13:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			02/25/23 09:56	02/26/23 13:09	1
o-Terphenyl (Surr)	85		70 - 130			02/25/23 09:56	02/26/23 13:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5420		49.8	mg/Kg			02/26/23 22:37	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: South, 0-0.5

Lab Sample ID: 880-24991-23

Date Collected: 02/20/23 16:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 17:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 17:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 17:14	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 17:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 17:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/27/23 14:58	03/02/23 17:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/27/23 14:58	03/02/23 17:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	02/25/23 09:56	02/26/23 13:31	1
o-Terphenyl (Surr)	85		70 - 130	02/25/23 09:56	02/26/23 13:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.23		5.00	mg/Kg			02/26/23 22:43	1

Client Sample ID: Sout, 0.5-1

Lab Sample ID: 880-24991-24

Date Collected: 02/20/23 16:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/27/23 14:58	03/02/23 17:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/27/23 14:58	03/02/23 17:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/27/23 14:58	03/02/23 17:34	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/27/23 14:58	03/02/23 17:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/27/23 14:58	03/02/23 17:34	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/27/23 14:58	03/02/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/27/23 14:58	03/02/23 17:34	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/27/23 14:58	03/02/23 17:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: Sout, 0.5-1

Lab Sample ID: 880-24991-24

Date Collected: 02/20/23 16:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			02/25/23 09:56	02/26/23 13:54	1
o-Terphenyl (Surr)	99		70 - 130			02/25/23 09:56	02/26/23 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.95		4.95	mg/Kg			02/26/23 22:49	1

Client Sample ID: West, 0-0.5

Lab Sample ID: 880-24991-25

Date Collected: 02/20/23 17:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			02/27/23 14:58	03/02/23 19:24	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/27/23 14:58	03/02/23 19:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 14:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 14:16	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: West, 0-0.5

Lab Sample ID: 880-24991-25

Date Collected: 02/20/23 17:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			02/25/23 09:56	02/26/23 14:16	1
o-Terphenyl (Surr)	87		70 - 130			02/25/23 09:56	02/26/23 14:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		5.01	mg/Kg			02/26/23 22:55	1

Client Sample ID: West, 0.5-1

Lab Sample ID: 880-24991-26

Date Collected: 02/20/23 17:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/27/23 14:58	03/02/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/27/23 14:58	03/02/23 19:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/27/23 14:58	03/02/23 19:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 14:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 14:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			02/25/23 09:56	02/26/23 14:38	1
o-Terphenyl (Surr)	86		70 - 130			02/25/23 09:56	02/26/23 14:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		5.01	mg/Kg			02/26/23 23:14	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: East, 0-0.5

Lab Sample ID: 880-24991-27

Date Collected: 02/20/23 17:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 20:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/27/23 14:58	03/02/23 20:05	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/27/23 14:58	03/02/23 20:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	02/25/23 09:56	02/26/23 15:00	1
o-Terphenyl (Surr)	88		70 - 130	02/25/23 09:56	02/26/23 15:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.5		4.97	mg/Kg			02/26/23 23:20	1

Client Sample ID: East, 0.5-1

Lab Sample ID: 880-24991-28

Date Collected: 02/20/23 17:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:26	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 20:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 20:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/27/23 14:58	03/02/23 20:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/27/23 14:58	03/02/23 20:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: East, 0.5-1

Lab Sample ID: 880-24991-28

Date Collected: 02/20/23 17:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 15:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 15:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			02/25/23 09:56	02/26/23 15:23	1
o-Terphenyl (Surr)	89		70 - 130			02/25/23 09:56	02/26/23 15:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		4.99	mg/Kg			02/26/23 23:26	1

Client Sample ID: North, 0-0.5

Lab Sample ID: 880-24991-29

Date Collected: 02/20/23 18:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 20:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/27/23 14:58	03/02/23 20:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/27/23 14:58	03/02/23 20:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: North, 0-0.5

Lab Sample ID: 880-24991-29

Date Collected: 02/20/23 18:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			02/25/23 09:56	02/26/23 15:44	1
o-Terphenyl (Surr)	97		70 - 130			02/25/23 09:56	02/26/23 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.4		5.00	mg/Kg			02/26/23 23:32	1

Client Sample ID: North,0.5-1

Lab Sample ID: 880-24991-30

Date Collected: 02/20/23 18:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/27/23 14:58	03/02/23 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			02/27/23 14:58	03/02/23 21:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/27/23 14:58	03/02/23 21:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 16:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			02/25/23 09:56	02/26/23 16:06	1
o-Terphenyl (Surr)	98		70 - 130			02/25/23 09:56	02/26/23 16:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.00	mg/Kg			02/26/23 23:38	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-12, 0-0.5

Lab Sample ID: 880-24991-31

Date Collected: 02/20/23 18:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 21:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 21:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 21:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 21:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/27/23 14:58	03/02/23 21:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/27/23 14:58	03/02/23 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/27/23 14:58	03/02/23 21:27	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/27/23 14:58	03/02/23 21:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/23 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 16:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 16:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	02/25/23 09:56	02/26/23 16:50	1
o-Terphenyl (Surr)	90		70 - 130	02/25/23 09:56	02/26/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12200	F1	99.4	mg/Kg			02/26/23 23:44	20

Client Sample ID: S-12, 0.5-1

Lab Sample ID: 880-24991-32

Date Collected: 02/20/23 18:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 05:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 05:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 05:35	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		03/01/23 13:45	03/02/23 05:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 05:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/23 13:45	03/02/23 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/01/23 13:45	03/02/23 05:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/01/23 13:45	03/02/23 05:35	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-12, 0.5-1

Lab Sample ID: 880-24991-32

Date Collected: 02/20/23 18:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 17:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			02/25/23 09:56	02/26/23 17:12	1
o-Terphenyl (Surr)	98		70 - 130			02/25/23 09:56	02/26/23 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4350		50.5	mg/Kg			02/27/23 00:03	10

Client Sample ID: S-13, 0-0.5

Lab Sample ID: 880-24991-33

Date Collected: 02/20/23 19:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/23 13:45	03/02/23 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			03/01/23 13:45	03/02/23 05:55	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/01/23 13:45	03/02/23 05:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:35	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-13, 0-0.5

Lab Sample ID: 880-24991-33

Date Collected: 02/20/23 19:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			02/25/23 09:56	02/26/23 17:35	1
o-Terphenyl (Surr)	88		70 - 130			02/25/23 09:56	02/26/23 17:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9360		100	mg/Kg			02/27/23 00:09	20

Client Sample ID: S-13, 0.5-1

Lab Sample ID: 880-24991-34

Date Collected: 02/20/23 19:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/01/23 13:45	03/02/23 06:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/01/23 13:45	03/02/23 06:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:56	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/25/23 09:56	02/26/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			02/25/23 09:56	02/26/23 17:56	1
o-Terphenyl (Surr)	99		70 - 130			02/25/23 09:56	02/26/23 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		24.9	mg/Kg			02/27/23 00:27	5

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-14, 0-0.5

Lab Sample ID: 880-24991-35

Date Collected: 02/20/23 19:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:36	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 06:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 06:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/01/23 13:45	03/02/23 06:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/01/23 13:45	03/02/23 06:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 18:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 18:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	02/25/23 09:56	02/26/23 18:18	1
o-Terphenyl (Surr)	93		70 - 130	02/25/23 09:56	02/26/23 18:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		100	mg/Kg			02/27/23 00:34	20

Client Sample ID: S-14, 0.5-1

Lab Sample ID: 880-24991-36

Date Collected: 02/20/23 19:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 06:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 06:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 06:57	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		03/01/23 13:45	03/02/23 06:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/01/23 13:45	03/02/23 06:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/23 13:45	03/02/23 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	03/01/23 13:45	03/02/23 06:57	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/01/23 13:45	03/02/23 06:57	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-14, 0.5-1

Lab Sample ID: 880-24991-36

Date Collected: 02/20/23 19:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			02/25/23 09:56	02/26/23 18:41	1
o-Terphenyl (Surr)	86		70 - 130			02/25/23 09:56	02/26/23 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		24.9	mg/Kg			02/27/23 00:40	5

Client Sample ID: S-15, 0-0.5

Lab Sample ID: 880-24991-37

Date Collected: 02/20/23 20:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/23 13:45	03/02/23 07:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			03/01/23 13:45	03/02/23 07:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/01/23 13:45	03/02/23 07:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 19:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-15, 0-0.5

Lab Sample ID: 880-24991-37

Date Collected: 02/20/23 20:00

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/25/23 09:56	02/26/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			02/25/23 09:56	02/26/23 19:03	1
o-Terphenyl (Surr)	79		70 - 130			02/25/23 09:56	02/26/23 19:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		24.8	mg/Kg			02/27/23 00:46	5

Client Sample ID: S-15, 0.5-1

Lab Sample ID: 880-24991-38

Date Collected: 02/20/23 20:15

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/23 13:45	03/02/23 07:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/01/23 13:45	03/02/23 07:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130			03/01/23 13:45	03/02/23 07:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 19:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			02/25/23 09:56	02/26/23 19:25	1
o-Terphenyl (Surr)	81		70 - 130			02/25/23 09:56	02/26/23 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.98	mg/Kg			02/27/23 00:52	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-16, 0-0.5

Lab Sample ID: 880-24991-39

Date Collected: 02/20/23 20:30

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 07:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 07:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 07:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 07:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/23 13:45	03/02/23 07:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/23 13:45	03/02/23 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/23 13:45	03/02/23 07:58	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/01/23 13:45	03/02/23 07:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 19:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 19:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	02/25/23 09:56	02/26/23 19:47	1
o-Terphenyl (Surr)	92		70 - 130	02/25/23 09:56	02/26/23 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	715		4.99	mg/Kg			02/27/23 00:58	1

Client Sample ID: S-16, 0.5-1

Lab Sample ID: 880-24991-40

Date Collected: 02/20/23 20:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/01/23 13:45	03/02/23 08:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/01/23 13:45	03/02/23 08:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/01/23 13:45	03/02/23 08:18	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		03/01/23 13:45	03/02/23 08:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/01/23 13:45	03/02/23 08:18	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/01/23 13:45	03/02/23 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/01/23 13:45	03/02/23 08:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/01/23 13:45	03/02/23 08:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-16, 0.5-1

Lab Sample ID: 880-24991-40

Date Collected: 02/20/23 20:45

Matrix: Solid

Date Received: 02/21/23 09:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/02/23 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/27/23 12:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 20:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 20:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/23 09:56	02/26/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			02/25/23 09:56	02/26/23 20:09	1
o-Terphenyl (Surr)	77		70 - 130			02/25/23 09:56	02/26/23 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		4.97	mg/Kg			02/27/23 01:04	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-24991-1	S-1, 0-0.5	109	91
880-24991-1 MS	S-1, 0-0.5	102	98
880-24991-1 MSD	S-1, 0-0.5	105	99
880-24991-2	S-1, 0.5-1	119	109
880-24991-3	S-2, 0-0.5	119	89
880-24991-4	S-2, 0.5-1	120	100
880-24991-5	S-3, 0-0.5	126	105
880-24991-6	S-3, 0.5-1	119	111
880-24991-7	S-4, 0-0.5	117	109
880-24991-8	S-4, 0.5-1	128	90
880-24991-9	S-5, 0-0.5	118	111
880-24991-10	S-5, 0.5-1	88	69 S1-
880-24991-11	S-6, 0-0.5	112	108
880-24991-11 MS	S-6, 0-0.5	115	104
880-24991-11 MSD	S-6, 0-0.5	113	111
880-24991-14	S-7, 0.5-1	130	114
880-24991-15	S-8, 0-0.5	115	109
880-24991-16	S-8, 0.5-1	111	106
880-24991-17	S-9, 0-0.5	115	111
880-24991-18	S-9, 0.5-1	121	108
880-24991-19	S-10, 0-0.5	119	106
880-24991-20	S-10, 0.5-1	113	110
880-24991-21	S-11, 0-0.5	111	109
880-24991-21 MS	S-11, 0-0.5	112	113
880-24991-21 MSD	S-11, 0-0.5	114	113
880-24991-22	S-11, 0.5-1	113	106
880-24991-23	South, 0-0.5	122	107
880-24991-24	Sout, 0.5-1	116	109
880-24991-25	West, 0-0.5	114	109
880-24991-26	West, 0.5-1	112	106
880-24991-27	East, 0-0.5	124	113
880-24991-28	East, 0.5-1	115	111
880-24991-29	North, 0-0.5	113	108
880-24991-30	North, 0.5-1	115	109
880-24991-31	S-12, 0-0.5	119	112
880-24991-32	S-12, 0.5-1	121	103
880-24991-33	S-13, 0-0.5	122	108
880-24991-34	S-13, 0.5-1	108	102
880-24991-35	S-14, 0-0.5	118	106
880-24991-36	S-14, 0.5-1	120	109
880-24991-37	S-15, 0-0.5	110	101
880-24991-38	S-15, 0.5-1	106	100
880-24991-39	S-16, 0-0.5	99	89
880-24991-40	S-16, 0.5-1	107	100
LCS 880-47337/1-A	Lab Control Sample	96	97
LCS 880-47338/1-A	Lab Control Sample	106	113
LCS 880-47541/1-A	Lab Control Sample	113	111
LCS 880-47713/1-A	Lab Control Sample	108	121
LCSD 880-47337/2-A	Lab Control Sample Dup	96	95

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-24991-1

Project/Site: Boyd X-Silverback

SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-47338/2-A	Lab Control Sample Dup	108	111
LCSD 880-47541/2-A	Lab Control Sample Dup	112	110
LCSD 880-47713/2-A	Lab Control Sample Dup	108	108
MB 880-47337/5-A	Method Blank	90	90
MB 880-47338/5-A	Method Blank	104	104
MB 880-47520/5-A	Method Blank	103	105
MB 880-47541/5-A	Method Blank	107	98
MB 880-47713/5-A	Method Blank	103	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24991-1	S-1, 0-0.5	92	105
880-24991-1 MS	S-1, 0-0.5	127	133 S1+
880-24991-1 MSD	S-1, 0-0.5	114	116
880-24991-2	S-1, 0.5-1	114	131 S1+
880-24991-3	S-2, 0-0.5	119	132 S1+
880-24991-4	S-2, 0.5-1	99	112
880-24991-5	S-3, 0-0.5	92	104
880-24991-6	S-3, 0.5-1	99	111
880-24991-7	S-4, 0-0.5	97	109
880-24991-8	S-4, 0.5-1	103	115
880-24991-9	S-5, 0-0.5	97	112
880-24991-10	S-5, 0.5-1	109	123
880-24991-11	S-6, 0-0.5	100	114
880-24991-12	S-6, 0.5-1	92	106
880-24991-13	S-7, 0-0.5	100	114
880-24991-14	S-7, 0.5-1	97	112
880-24991-15	S-8, 0-0.5	90	102
880-24991-16	S-8, 0.5-1	99	112
880-24991-17	S-9, 0-0.5	102	113
880-24991-18	S-9, 0.5-1	97	111
880-24991-19	S-10, 0-0.5	95	108
880-24991-20	S-10, 0.5-1	92	105
880-24991-21	S-11, 0-0.5	86	89
880-24991-21 MS	S-11, 0-0.5	83	84
880-24991-21 MSD	S-11, 0-0.5	99	88
880-24991-22	S-11, 0.5-1	81	85
880-24991-23	South, 0-0.5	82	85
880-24991-24	Sout, 0.5-1	99	99
880-24991-25	West, 0-0.5	83	87
880-24991-26	West, 0.5-1	83	86
880-24991-27	East, 0-0.5	84	88
880-24991-28	East, 0.5-1	85	89

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-24991-1

Project/Site: Boyd X-Silverback

SDG: 23-0105-01

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24991-29	North, 0-0.5	98	97
880-24991-30	North, 0.5-1	96	98
880-24991-31	S-12, 0-0.5	84	90
880-24991-32	S-12, 0.5-1	97	98
880-24991-33	S-13, 0-0.5	83	88
880-24991-34	S-13, 0.5-1	99	99
880-24991-35	S-14, 0-0.5	91	93
880-24991-36	S-14, 0.5-1	83	86
880-24991-37	S-15, 0-0.5	76	79
880-24991-38	S-15, 0.5-1	76	81
880-24991-39	S-16, 0-0.5	91	92
880-24991-40	S-16, 0.5-1	73	77
LCS 880-47229/2-A	Lab Control Sample	92	100
LCS 880-47230/2-A	Lab Control Sample	79	91
LCSD 880-47229/3-A	Lab Control Sample Dup	99	106
LCSD 880-47230/3-A	Lab Control Sample Dup	77	84
MB 880-47229/1-A	Method Blank	130	148 S1+
MB 880-47230/1-A	Method Blank	141 S1+	151 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47337/5-A

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47337

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 12:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/27/23 14:56	03/02/23 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:56	03/02/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/27/23 14:56	03/02/23 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/27/23 14:56	03/02/23 12:21	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/27/23 14:56	03/02/23 12:21	1

Lab Sample ID: LCS 880-47337/1-A

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08626		mg/Kg		86	70 - 130
Toluene	0.100	0.08350		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08090		mg/Kg		81	70 - 130
m,p-Xylenes	0.200	0.1643		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08513		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-47337/2-A

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09093		mg/Kg		91	70 - 130	5	35
Toluene	0.100	0.08768		mg/Kg		88	70 - 130	5	35
Ethylbenzene	0.100	0.08458		mg/Kg		85	70 - 130	4	35
m,p-Xylenes	0.200	0.1726		mg/Kg		86	70 - 130	5	35
o-Xylene	0.100	0.08927		mg/Kg		89	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-24991-1 MS

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.07305		mg/Kg		73	70 - 130
Toluene	<0.00199	U F1	0.100	0.07101		mg/Kg		71	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24991-1 MS

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.100	0.06883	F1	mg/Kg		69	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1395		mg/Kg		70	70 - 130
o-Xylene	<0.00199	U	0.100	0.07096		mg/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-24991-1 MSD

Matrix: Solid

Analysis Batch: 47604

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.07129		mg/Kg		71	70 - 130	2	35
Toluene	<0.00199	U F1	0.0996	0.06909	F1	mg/Kg		69	70 - 130	3	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06788	F1	mg/Kg		68	70 - 130	1	35
m,p-Xylenes	<0.00398	U F1	0.199	0.1379	F1	mg/Kg		69	70 - 130	1	35
o-Xylene	<0.00199	U	0.0996	0.07035		mg/Kg		71	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-47338/5-A

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47338

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/27/23 14:58	03/02/23 13:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 14:58	03/02/23 13:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/27/23 14:58	03/02/23 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1

Lab Sample ID: LCS 880-47338/1-A

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09745		mg/Kg		97	70 - 130
Toluene	0.100	0.09759		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130
m,p-Xylenes	0.200	0.2238		mg/Kg		112	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-47338/1-A

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-47338/2-A

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47338

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1079		mg/Kg		108	70 - 130	10	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	10	35
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130	6	35
m,p-Xylenes	0.200	0.2357		mg/Kg		118	70 - 130	5	35
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-24991-21 MS

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: S-11, 0-0.5

Prep Type: Total/NA

Prep Batch: 47338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09092		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.0998	0.08458		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.08452		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00400	U F1	0.200	0.1792		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.08653		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-24991-21 MSD

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: S-11, 0-0.5

Prep Type: Total/NA

Prep Batch: 47338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08438		mg/Kg		84	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.07257		mg/Kg		72	70 - 130	15	35
Ethylbenzene	<0.00200	U F1	0.100	0.06633	F1	mg/Kg		66	70 - 130	24	35
m,p-Xylenes	<0.00400	U F1	0.200	0.1376	F1	mg/Kg		69	70 - 130	26	35
o-Xylene	<0.00200	U F1	0.100	0.06877	F1	mg/Kg		68	70 - 130	23	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24991-21 MSD

Matrix: Solid

Analysis Batch: 47605

Client Sample ID: S-11, 0-0.5

Prep Type: Total/NA

Prep Batch: 47338

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-47520/5-A

Matrix: Solid

Analysis Batch: 47508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47520

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/23 10:42	03/01/23 12:17	1	

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Prepared

03/01/23 10:42

03/01/23 12:17

1

Lab Sample ID: MB 880-47541/5-A

Matrix: Solid

Analysis Batch: 47508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47541

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/23 13:45	03/01/23 23:53	1	

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Prepared

03/01/23 13:45

03/01/23 23:53

1

Lab Sample ID: LCS 880-47541/1-A

Matrix: Solid

Analysis Batch: 47508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47541

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Benzene	0.100	0.1109		mg/Kg		111		70 - 130	
Toluene	0.100	0.1071		mg/Kg		107		70 - 130	
Ethylbenzene	0.100	0.1124		mg/Kg		112		70 - 130	
m,p-Xylenes	0.200	0.2414		mg/Kg		121		70 - 130	
o-Xylene	0.100	0.1173		mg/Kg		117		70 - 130	

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-47541/1-A

Matrix: Solid

Analysis Batch: 47508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47541

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-47541/2-A

Matrix: Solid

Analysis Batch: 47508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	2	35
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Ethylbenzene	0.100	0.1107		mg/Kg		111	70 - 130	2	35
m,p-Xylenes	0.200	0.2381		mg/Kg		119	70 - 130	1	35
o-Xylene	0.100	0.1165		mg/Kg		116	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-47713/5-A

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47713

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 14:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 14:40	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/03/23 09:48	03/03/23 14:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/23 09:48	03/03/23 14:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/03/23 09:48	03/03/23 14:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/03/23 09:48	03/03/23 14:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/03/23 09:48	03/03/23 14:40	1

Lab Sample ID: LCS 880-47713/1-A

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09079		mg/Kg		91	70 - 130
Toluene	0.100	0.09638		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2158		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-47713/1-A

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47713

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-47713/2-A

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47713

	LCS	LCS									
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	12	35
Toluene			0.100	0.1042		mg/Kg		104	70 - 130	8	35
Ethylbenzene			0.100	0.1088		mg/Kg		109	70 - 130	6	35
m,p-Xylenes			0.200	0.2331		mg/Kg		117	70 - 130	8	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-24991-11 MS

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: S-6, 0-0.5

Prep Type: Total/NA

Prep Batch: 47713

	Sample	Sample	Spike	MS	MS						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.1037		mg/Kg		104	70 - 130		
Toluene	<0.00201	U	0.100	0.1145		mg/Kg		114	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.1208		mg/Kg		121	70 - 130		
m,p-Xylenes	<0.00402	U	0.200	0.2579		mg/Kg		129	70 - 130		
o-Xylene	<0.00201	U	0.100	0.1236		mg/Kg		123	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-24991-11 MSD

Matrix: Solid

Analysis Batch: 47723

Client Sample ID: S-6, 0-0.5

Prep Type: Total/NA

Prep Batch: 47713

	Sample	Sample	Spike	MSD	MSD						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1202		mg/Kg		121	70 - 130	15	35
Toluene	<0.00201	U	0.0996	0.1171		mg/Kg		118	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.0996	0.1216		mg/Kg		122	70 - 130	1	35
m,p-Xylenes	<0.00402	U	0.199	0.2596		mg/Kg		130	70 - 130	1	35
o-Xylene	<0.00201	U	0.0996	0.1245		mg/Kg		125	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

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

Lab Sample ID: MB 880-47229/1-A

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47229

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:52	02/25/23 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130	02/25/23 09:52	02/25/23 20:13	1
o-Terphenyl (Surr)	148	S1+	70 - 130	02/25/23 09:52	02/25/23 20:13	1

Lab Sample ID: LCS 880-47229/2-A

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	892.7		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	942.4		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-47229/3-A

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		110	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: 880-24991-1 MS

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1159		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1212		mg/Kg		119	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

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

Lab Sample ID: 880-24991-1 MS

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47229

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	127		70 - 130
o-Terphenyl (Surr)	133	S1+	70 - 130

Lab Sample ID: 880-24991-1 MSD

Matrix: Solid

Analysis Batch: 47219

Client Sample ID: S-1, 0-0.5

Prep Type: Total/NA

Prep Batch: 47229

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1009		mg/Kg		98	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1070		mg/Kg		105	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: MB 880-47230/1-A

Matrix: Solid

Analysis Batch: 47239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47230

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/23 09:56	02/26/23 08:53	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	141	S1+	70 - 130	02/25/23 09:56	02/26/23 08:53	1
o-Terphenyl (Surr)	151	S1+	70 - 130	02/25/23 09:56	02/26/23 08:53	1

Lab Sample ID: LCS 880-47230/2-A

Matrix: Solid

Analysis Batch: 47239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	852.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	832.0		mg/Kg		83	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	79		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

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

Lab Sample ID: LCSD 880-47230/3-A

Matrix: Solid

Analysis Batch: 47239

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47230

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	785.9		mg/Kg		79	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	760.9		mg/Kg		76	70 - 130	9	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	77		70 - 130						
o-Terphenyl (Surr)	84		70 - 130						

Lab Sample ID: 880-24991-21 MS

Matrix: Solid

Analysis Batch: 47239

Client Sample ID: S-11, 0-0.5

Prep Type: Total/NA

Prep Batch: 47230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	857.7		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	735.4		mg/Kg		71	70 - 130		
Surrogate	%Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	83		70 - 130								
o-Terphenyl (Surr)	84		70 - 130								

Lab Sample ID: 880-24991-21 MSD

Matrix: Solid

Analysis Batch: 47239

Client Sample ID: S-11, 0-0.5

Prep Type: Total/NA

Prep Batch: 47230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	857.1		mg/Kg		84	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	774.8		mg/Kg		75	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	99		70 - 130								
o-Terphenyl (Surr)	88		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47099/1-A

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/26/23 18:24	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-47099/2-A

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.0		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-47099/3-A

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.5		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-24991-1 MS

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: S-1, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13100	F1	12500	28670	F1	mg/Kg		124	90 - 110

Lab Sample ID: 880-24991-1 MSD

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: S-1, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13100	F1	12500	28210	F1	mg/Kg		121	90 - 110	2	20

Lab Sample ID: 880-24991-11 MS

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: S-6, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13400	F1	12500	28100	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-24991-11 MSD

Matrix: Solid

Analysis Batch: 47301

Client Sample ID: S-6, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13400	F1	12500	28040	F1	mg/Kg		118	90 - 110	0	20

Lab Sample ID: MB 880-47100/1-A

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/26/23 22:00	1

Lab Sample ID: LCS 880-47100/2-A

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-47100/3-A

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-24991-21 MS

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: S-11, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12000	F1	5020	17730	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-24991-21 MSD

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: S-11, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12000	F1	5020	17620	F1	mg/Kg		111	90 - 110	1	20

Lab Sample ID: 880-24991-31 MS

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: S-12, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12200	F1	4970	18180	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-24991-31 MSD

Matrix: Solid

Analysis Batch: 47302

Client Sample ID: S-12, 0-0.5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12200	F1	4970	18090	F1	mg/Kg		118	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC VOA

Prep Batch: 47337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	5035	
880-24991-2	S-1, 0.5-1	Total/NA	Solid	5035	
880-24991-3	S-2, 0-0.5	Total/NA	Solid	5035	
880-24991-4	S-2, 0.5-1	Total/NA	Solid	5035	
880-24991-5	S-3, 0-0.5	Total/NA	Solid	5035	
880-24991-6	S-3, 0.5-1	Total/NA	Solid	5035	
880-24991-7	S-4, 0-0.5	Total/NA	Solid	5035	
880-24991-8	S-4, 0.5-1	Total/NA	Solid	5035	
880-24991-9	S-5, 0-0.5	Total/NA	Solid	5035	
880-24991-10	S-5, 0.5-1	Total/NA	Solid	5035	
MB 880-47337/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47337/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47337/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24991-1 MS	S-1, 0-0.5	Total/NA	Solid	5035	
880-24991-1 MSD	S-1, 0-0.5	Total/NA	Solid	5035	

Prep Batch: 47338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Total/NA	Solid	5035	
880-24991-22	S-11, 0.5-1	Total/NA	Solid	5035	
880-24991-23	South, 0-0.5	Total/NA	Solid	5035	
880-24991-24	Sout, 0.5-1	Total/NA	Solid	5035	
880-24991-25	West, 0-0.5	Total/NA	Solid	5035	
880-24991-26	West, 0.5-1	Total/NA	Solid	5035	
880-24991-27	East, 0-0.5	Total/NA	Solid	5035	
880-24991-28	East, 0.5-1	Total/NA	Solid	5035	
880-24991-29	North, 0-0.5	Total/NA	Solid	5035	
880-24991-30	North, 0.5-1	Total/NA	Solid	5035	
880-24991-31	S-12, 0-0.5	Total/NA	Solid	5035	
MB 880-47338/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47338/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47338/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24991-21 MS	S-11, 0-0.5	Total/NA	Solid	5035	
880-24991-21 MSD	S-11, 0-0.5	Total/NA	Solid	5035	

Analysis Batch: 47508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-32	S-12, 0.5-1	Total/NA	Solid	8021B	47541
880-24991-33	S-13, 0-0.5	Total/NA	Solid	8021B	47541
880-24991-34	S-13, 0.5-1	Total/NA	Solid	8021B	47541
880-24991-35	S-14, 0-0.5	Total/NA	Solid	8021B	47541
880-24991-36	S-14, 0.5-1	Total/NA	Solid	8021B	47541
880-24991-37	S-15, 0-0.5	Total/NA	Solid	8021B	47541
880-24991-38	S-15, 0.5-1	Total/NA	Solid	8021B	47541
880-24991-39	S-16, 0-0.5	Total/NA	Solid	8021B	47541
880-24991-40	S-16, 0.5-1	Total/NA	Solid	8021B	47541
MB 880-47520/5-A	Method Blank	Total/NA	Solid	8021B	47520
MB 880-47541/5-A	Method Blank	Total/NA	Solid	8021B	47541
LCS 880-47541/1-A	Lab Control Sample	Total/NA	Solid	8021B	47541
LCSD 880-47541/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47541

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC VOA

Prep Batch: 47520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47520/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 47541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-32	S-12, 0.5-1	Total/NA	Solid	5035	
880-24991-33	S-13, 0-0.5	Total/NA	Solid	5035	
880-24991-34	S-13, 0.5-1	Total/NA	Solid	5035	
880-24991-35	S-14, 0-0.5	Total/NA	Solid	5035	
880-24991-36	S-14, 0.5-1	Total/NA	Solid	5035	
880-24991-37	S-15, 0-0.5	Total/NA	Solid	5035	
880-24991-38	S-15, 0.5-1	Total/NA	Solid	5035	
880-24991-39	S-16, 0-0.5	Total/NA	Solid	5035	
880-24991-40	S-16, 0.5-1	Total/NA	Solid	5035	
MB 880-47541/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47541/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47541/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-2	S-1, 0.5-1	Total/NA	Solid	8021B	47337
880-24991-3	S-2, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-4	S-2, 0.5-1	Total/NA	Solid	8021B	47337
880-24991-5	S-3, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-6	S-3, 0.5-1	Total/NA	Solid	8021B	47337
880-24991-7	S-4, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-8	S-4, 0.5-1	Total/NA	Solid	8021B	47337
880-24991-9	S-5, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-10	S-5, 0.5-1	Total/NA	Solid	8021B	47337
MB 880-47337/5-A	Method Blank	Total/NA	Solid	8021B	47337
LCS 880-47337/1-A	Lab Control Sample	Total/NA	Solid	8021B	47337
LCSD 880-47337/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47337
880-24991-1 MS	S-1, 0-0.5	Total/NA	Solid	8021B	47337
880-24991-1 MSD	S-1, 0-0.5	Total/NA	Solid	8021B	47337

Analysis Batch: 47605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-22	S-11, 0.5-1	Total/NA	Solid	8021B	47338
880-24991-23	South, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-24	Sout, 0.5-1	Total/NA	Solid	8021B	47338
880-24991-25	West, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-26	West, 0.5-1	Total/NA	Solid	8021B	47338
880-24991-27	East, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-28	East, 0.5-1	Total/NA	Solid	8021B	47338
880-24991-29	North, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-30	North,0.5-1	Total/NA	Solid	8021B	47338
880-24991-31	S-12, 0-0.5	Total/NA	Solid	8021B	47338
MB 880-47338/5-A	Method Blank	Total/NA	Solid	8021B	47338
LCS 880-47338/1-A	Lab Control Sample	Total/NA	Solid	8021B	47338
LCSD 880-47338/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47338

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC VOA (Continued)

Analysis Batch: 47605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21 MS	S-11, 0-0.5	Total/NA	Solid	8021B	47338
880-24991-21 MSD	S-11, 0-0.5	Total/NA	Solid	8021B	47338

Analysis Batch: 47660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-2	S-1, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-3	S-2, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-4	S-2, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-5	S-3, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-6	S-3, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-7	S-4, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-8	S-4, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-9	S-5, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-10	S-5, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-11	S-6, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-14	S-7, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-15	S-8, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-16	S-8, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-17	S-9, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-18	S-9, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-19	S-10, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-20	S-10, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-21	S-11, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-22	S-11, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-23	South, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-24	Sout, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-25	West, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-26	West, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-27	East, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-28	East, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-29	North, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-30	North, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-31	S-12, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-32	S-12, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-33	S-13, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-34	S-13, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-35	S-14, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-36	S-14, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-37	S-15, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-38	S-15, 0.5-1	Total/NA	Solid	Total BTEX	
880-24991-39	S-16, 0-0.5	Total/NA	Solid	Total BTEX	
880-24991-40	S-16, 0.5-1	Total/NA	Solid	Total BTEX	

Prep Batch: 47713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-11	S-6, 0-0.5	Total/NA	Solid	5035	
880-24991-14	S-7, 0.5-1	Total/NA	Solid	5035	
880-24991-15	S-8, 0-0.5	Total/NA	Solid	5035	
880-24991-16	S-8, 0.5-1	Total/NA	Solid	5035	
880-24991-17	S-9, 0-0.5	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC VOA (Continued)

Prep Batch: 47713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-18	S-9, 0.5-1	Total/NA	Solid	5035	
880-24991-19	S-10, 0-0.5	Total/NA	Solid	5035	
880-24991-20	S-10, 0.5-1	Total/NA	Solid	5035	
MB 880-47713/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47713/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47713/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24991-11 MS	S-6, 0-0.5	Total/NA	Solid	5035	
880-24991-11 MSD	S-6, 0-0.5	Total/NA	Solid	5035	

Analysis Batch: 47723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-11	S-6, 0-0.5	Total/NA	Solid	8021B	47713
880-24991-14	S-7, 0.5-1	Total/NA	Solid	8021B	47713
880-24991-15	S-8, 0-0.5	Total/NA	Solid	8021B	47713
880-24991-16	S-8, 0.5-1	Total/NA	Solid	8021B	47713
880-24991-17	S-9, 0-0.5	Total/NA	Solid	8021B	47713
880-24991-18	S-9, 0.5-1	Total/NA	Solid	8021B	47713
880-24991-19	S-10, 0-0.5	Total/NA	Solid	8021B	47713
880-24991-20	S-10, 0.5-1	Total/NA	Solid	8021B	47713
MB 880-47713/5-A	Method Blank	Total/NA	Solid	8021B	47713
LCS 880-47713/1-A	Lab Control Sample	Total/NA	Solid	8021B	47713
LCSD 880-47713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47713
880-24991-11 MS	S-6, 0-0.5	Total/NA	Solid	8021B	47713
880-24991-11 MSD	S-6, 0-0.5	Total/NA	Solid	8021B	47713

GC Semi VOA

Analysis Batch: 47219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-2	S-1, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-3	S-2, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-4	S-2, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-5	S-3, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-6	S-3, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-7	S-4, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-8	S-4, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-9	S-5, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-10	S-5, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-11	S-6, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-12	S-6, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-13	S-7, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-14	S-7, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-15	S-8, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-16	S-8, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-17	S-9, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-18	S-9, 0.5-1	Total/NA	Solid	8015B NM	47229
880-24991-19	S-10, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-20	S-10, 0.5-1	Total/NA	Solid	8015B NM	47229
MB 880-47229/1-A	Method Blank	Total/NA	Solid	8015B NM	47229
LCS 880-47229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47229

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC Semi VOA (Continued)

Analysis Batch: 47219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-47229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47229
880-24991-1 MS	S-1, 0-0.5	Total/NA	Solid	8015B NM	47229
880-24991-1 MSD	S-1, 0-0.5	Total/NA	Solid	8015B NM	47229

Prep Batch: 47229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-2	S-1, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-3	S-2, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-4	S-2, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-5	S-3, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-6	S-3, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-7	S-4, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-8	S-4, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-9	S-5, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-10	S-5, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-11	S-6, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-12	S-6, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-13	S-7, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-14	S-7, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-15	S-8, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-16	S-8, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-17	S-9, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-18	S-9, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-19	S-10, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-20	S-10, 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-47229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24991-1 MS	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-1 MSD	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 47230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-22	S-11, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-23	South, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-24	Sout, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-25	West, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-26	West, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-27	East, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-28	East, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-29	North, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-30	North, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-31	S-12, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-32	S-12, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-33	S-13, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-34	S-13, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-35	S-14, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-36	S-14, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-37	S-15, 0-0.5	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC Semi VOA (Continued)

Prep Batch: 47230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-38	S-15, 0.5-1	Total/NA	Solid	8015NM Prep	
880-24991-39	S-16, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-40	S-16, 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-47230/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47230/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47230/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24991-21 MS	S-11, 0-0.5	Total/NA	Solid	8015NM Prep	
880-24991-21 MSD	S-11, 0-0.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-22	S-11, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-23	South, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-24	Sout, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-25	West, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-26	West, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-27	East, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-28	East, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-29	North, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-30	North,0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-31	S-12, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-32	S-12, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-33	S-13, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-34	S-13, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-35	S-14, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-36	S-14, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-37	S-15, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-38	S-15, 0.5-1	Total/NA	Solid	8015B NM	47230
880-24991-39	S-16, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-40	S-16, 0.5-1	Total/NA	Solid	8015B NM	47230
MB 880-47230/1-A	Method Blank	Total/NA	Solid	8015B NM	47230
LCS 880-47230/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47230
LCSD 880-47230/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47230
880-24991-21 MS	S-11, 0-0.5	Total/NA	Solid	8015B NM	47230
880-24991-21 MSD	S-11, 0-0.5	Total/NA	Solid	8015B NM	47230

Analysis Batch: 47328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-2	S-1, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-3	S-2, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-4	S-2, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-5	S-3, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-6	S-3, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-7	S-4, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-8	S-4, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-9	S-5, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-10	S-5, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-11	S-6, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-12	S-6, 0.5-1	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

GC Semi VOA (Continued)

Analysis Batch: 47328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-13	S-7, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-14	S-7, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-15	S-8, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-16	S-8, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-17	S-9, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-18	S-9, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-19	S-10, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-20	S-10, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-21	S-11, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-22	S-11, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-23	South, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-24	Sout, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-25	West, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-26	West, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-27	East, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-28	East, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-29	North, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-30	North,0.5-1	Total/NA	Solid	8015 NM	
880-24991-31	S-12, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-32	S-12, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-33	S-13, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-34	S-13, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-35	S-14, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-36	S-14, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-37	S-15, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-38	S-15, 0.5-1	Total/NA	Solid	8015 NM	
880-24991-39	S-16, 0-0.5	Total/NA	Solid	8015 NM	
880-24991-40	S-16, 0.5-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Soluble	Solid	DI Leach	
880-24991-2	S-1, 0.5-1	Soluble	Solid	DI Leach	
880-24991-3	S-2, 0-0.5	Soluble	Solid	DI Leach	
880-24991-4	S-2, 0.5-1	Soluble	Solid	DI Leach	
880-24991-5	S-3, 0-0.5	Soluble	Solid	DI Leach	
880-24991-6	S-3, 0.5-1	Soluble	Solid	DI Leach	
880-24991-7	S-4, 0-0.5	Soluble	Solid	DI Leach	
880-24991-8	S-4, 0.5-1	Soluble	Solid	DI Leach	
880-24991-9	S-5, 0-0.5	Soluble	Solid	DI Leach	
880-24991-10	S-5, 0.5-1	Soluble	Solid	DI Leach	
880-24991-11	S-6, 0-0.5	Soluble	Solid	DI Leach	
880-24991-12	S-6, 0.5-1	Soluble	Solid	DI Leach	
880-24991-13	S-7, 0-0.5	Soluble	Solid	DI Leach	
880-24991-14	S-7, 0.5-1	Soluble	Solid	DI Leach	
880-24991-15	S-8, 0-0.5	Soluble	Solid	DI Leach	
880-24991-16	S-8, 0.5-1	Soluble	Solid	DI Leach	
880-24991-17	S-9, 0-0.5	Soluble	Solid	DI Leach	
880-24991-18	S-9, 0.5-1	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

HPLC/IC (Continued)

Leach Batch: 47099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-19	S-10, 0-0.5	Soluble	Solid	DI Leach	
880-24991-20	S-10, 0.5-1	Soluble	Solid	DI Leach	
MB 880-47099/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47099/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47099/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24991-1 MS	S-1, 0-0.5	Soluble	Solid	DI Leach	
880-24991-1 MSD	S-1, 0-0.5	Soluble	Solid	DI Leach	
880-24991-11 MS	S-6, 0-0.5	Soluble	Solid	DI Leach	
880-24991-11 MSD	S-6, 0-0.5	Soluble	Solid	DI Leach	

Leach Batch: 47100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Soluble	Solid	DI Leach	
880-24991-22	S-11, 0.5-1	Soluble	Solid	DI Leach	
880-24991-23	South, 0-0.5	Soluble	Solid	DI Leach	
880-24991-24	Sout, 0.5-1	Soluble	Solid	DI Leach	
880-24991-25	West, 0-0.5	Soluble	Solid	DI Leach	
880-24991-26	West, 0.5-1	Soluble	Solid	DI Leach	
880-24991-27	East, 0-0.5	Soluble	Solid	DI Leach	
880-24991-28	East, 0.5-1	Soluble	Solid	DI Leach	
880-24991-29	North, 0-0.5	Soluble	Solid	DI Leach	
880-24991-30	North, 0.5-1	Soluble	Solid	DI Leach	
880-24991-31	S-12, 0-0.5	Soluble	Solid	DI Leach	
880-24991-32	S-12, 0.5-1	Soluble	Solid	DI Leach	
880-24991-33	S-13, 0-0.5	Soluble	Solid	DI Leach	
880-24991-34	S-13, 0.5-1	Soluble	Solid	DI Leach	
880-24991-35	S-14, 0-0.5	Soluble	Solid	DI Leach	
880-24991-36	S-14, 0.5-1	Soluble	Solid	DI Leach	
880-24991-37	S-15, 0-0.5	Soluble	Solid	DI Leach	
880-24991-38	S-15, 0.5-1	Soluble	Solid	DI Leach	
880-24991-39	S-16, 0-0.5	Soluble	Solid	DI Leach	
880-24991-40	S-16, 0.5-1	Soluble	Solid	DI Leach	
MB 880-47100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24991-21 MS	S-11, 0-0.5	Soluble	Solid	DI Leach	
880-24991-21 MSD	S-11, 0-0.5	Soluble	Solid	DI Leach	
880-24991-31 MS	S-12, 0-0.5	Soluble	Solid	DI Leach	
880-24991-31 MSD	S-12, 0-0.5	Soluble	Solid	DI Leach	

Analysis Batch: 47301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-1	S-1, 0-0.5	Soluble	Solid	300.0	47099
880-24991-2	S-1, 0.5-1	Soluble	Solid	300.0	47099
880-24991-3	S-2, 0-0.5	Soluble	Solid	300.0	47099
880-24991-4	S-2, 0.5-1	Soluble	Solid	300.0	47099
880-24991-5	S-3, 0-0.5	Soluble	Solid	300.0	47099
880-24991-6	S-3, 0.5-1	Soluble	Solid	300.0	47099
880-24991-7	S-4, 0-0.5	Soluble	Solid	300.0	47099
880-24991-8	S-4, 0.5-1	Soluble	Solid	300.0	47099
880-24991-9	S-5, 0-0.5	Soluble	Solid	300.0	47099

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

HPLC/IC (Continued)

Analysis Batch: 47301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-10	S-5, 0.5-1	Soluble	Solid	300.0	47099
880-24991-11	S-6, 0-0.5	Soluble	Solid	300.0	47099
880-24991-12	S-6, 0.5-1	Soluble	Solid	300.0	47099
880-24991-13	S-7, 0-0.5	Soluble	Solid	300.0	47099
880-24991-14	S-7, 0.5-1	Soluble	Solid	300.0	47099
880-24991-15	S-8, 0-0.5	Soluble	Solid	300.0	47099
880-24991-16	S-8, 0.5-1	Soluble	Solid	300.0	47099
880-24991-17	S-9, 0-0.5	Soluble	Solid	300.0	47099
880-24991-18	S-9, 0.5-1	Soluble	Solid	300.0	47099
880-24991-19	S-10, 0-0.5	Soluble	Solid	300.0	47099
880-24991-20	S-10, 0.5-1	Soluble	Solid	300.0	47099
MB 880-47099/1-A	Method Blank	Soluble	Solid	300.0	47099
LCS 880-47099/2-A	Lab Control Sample	Soluble	Solid	300.0	47099
LCSD 880-47099/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47099
880-24991-1 MS	S-1, 0-0.5	Soluble	Solid	300.0	47099
880-24991-1 MSD	S-1, 0-0.5	Soluble	Solid	300.0	47099
880-24991-11 MS	S-6, 0-0.5	Soluble	Solid	300.0	47099
880-24991-11 MSD	S-6, 0-0.5	Soluble	Solid	300.0	47099

Analysis Batch: 47302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24991-21	S-11, 0-0.5	Soluble	Solid	300.0	47100
880-24991-22	S-11, 0.5-1	Soluble	Solid	300.0	47100
880-24991-23	South, 0-0.5	Soluble	Solid	300.0	47100
880-24991-24	Sout, 0.5-1	Soluble	Solid	300.0	47100
880-24991-25	West, 0-0.5	Soluble	Solid	300.0	47100
880-24991-26	West, 0.5-1	Soluble	Solid	300.0	47100
880-24991-27	East, 0-0.5	Soluble	Solid	300.0	47100
880-24991-28	East, 0.5-1	Soluble	Solid	300.0	47100
880-24991-29	North, 0-0.5	Soluble	Solid	300.0	47100
880-24991-30	North,0.5-1	Soluble	Solid	300.0	47100
880-24991-31	S-12, 0-0.5	Soluble	Solid	300.0	47100
880-24991-32	S-12, 0.5-1	Soluble	Solid	300.0	47100
880-24991-33	S-13, 0-0.5	Soluble	Solid	300.0	47100
880-24991-34	S-13, 0.5-1	Soluble	Solid	300.0	47100
880-24991-35	S-14, 0-0.5	Soluble	Solid	300.0	47100
880-24991-36	S-14, 0.5-1	Soluble	Solid	300.0	47100
880-24991-37	S-15, 0-0.5	Soluble	Solid	300.0	47100
880-24991-38	S-15, 0.5-1	Soluble	Solid	300.0	47100
880-24991-39	S-16, 0-0.5	Soluble	Solid	300.0	47100
880-24991-40	S-16, 0.5-1	Soluble	Solid	300.0	47100
MB 880-47100/1-A	Method Blank	Soluble	Solid	300.0	47100
LCS 880-47100/2-A	Lab Control Sample	Soluble	Solid	300.0	47100
LCSD 880-47100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47100
880-24991-21 MS	S-11, 0-0.5	Soluble	Solid	300.0	47100
880-24991-21 MSD	S-11, 0-0.5	Soluble	Solid	300.0	47100
880-24991-31 MS	S-12, 0-0.5	Soluble	Solid	300.0	47100
880-24991-31 MSD	S-12, 0-0.5	Soluble	Solid	300.0	47100

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-1, 0-0.5**Lab Sample ID: 880-24991-1****Date Collected: 02/20/23 11:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 21:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		50			47301	02/26/23 18:43	CH	EET MID

Client Sample ID: S-1, 0.5-1**Lab Sample ID: 880-24991-2****Date Collected: 02/20/23 11:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 22:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		10			47301	02/26/23 19:01	CH	EET MID

Client Sample ID: S-2, 0-0.5**Lab Sample ID: 880-24991-3****Date Collected: 02/20/23 11:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 19:07	CH	EET MID

Client Sample ID: S-2, 0.5-1**Lab Sample ID: 880-24991-4****Date Collected: 02/20/23 11:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-2, 0.5-1**Lab Sample ID: 880-24991-4****Date Collected: 02/20/23 11:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 23:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		5			47301	02/26/23 19:14	CH	EET MID

Client Sample ID: S-3, 0-0.5**Lab Sample ID: 880-24991-5****Date Collected: 02/20/23 12:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 23:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 19:20	CH	EET MID

Client Sample ID: S-3, 0.5-1**Lab Sample ID: 880-24991-6****Date Collected: 02/20/23 12:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/25/23 23:49	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		5			47301	02/26/23 19:38	CH	EET MID

Client Sample ID: S-4, 0-0.5**Lab Sample ID: 880-24991-7****Date Collected: 02/20/23 12:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 14:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 00:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-4, 0-0.5**Lab Sample ID: 880-24991-7****Date Collected: 02/20/23 12:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 19:44	CH	EET MID

Client Sample ID: S-4, 0.5-1**Lab Sample ID: 880-24991-8****Date Collected: 02/20/23 12:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 00:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		10			47301	02/26/23 19:50	CH	EET MID

Client Sample ID: S-5, 0-0.5**Lab Sample ID: 880-24991-9****Date Collected: 02/20/23 13:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 19:57	CH	EET MID

Client Sample ID: S-5, 0.5-1**Lab Sample ID: 880-24991-10****Date Collected: 02/20/23 13:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47337	02/27/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47604	03/02/23 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1			47301	02/26/23 20:03	CH	EET MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-6, 0-0.5**Lab Sample ID: 880-24991-11****Date Collected: 02/20/23 13:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 15:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		50			47301	02/26/23 20:09	CH	EET MID

Client Sample ID: S-6, 0.5-1**Lab Sample ID: 880-24991-12****Date Collected: 02/20/23 13:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 02:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		10			47301	02/26/23 20:27	CH	EET MID

Client Sample ID: S-7, 0-0.5**Lab Sample ID: 880-24991-13****Date Collected: 02/20/23 14:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		50			47301	02/26/23 20:33	CH	EET MID

Client Sample ID: S-7, 0.5-1**Lab Sample ID: 880-24991-14****Date Collected: 02/20/23 14:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 03:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		5			47301	02/26/23 20:52	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-8, 0-0.5**Lab Sample ID: 880-24991-15****Date Collected: 02/20/23 14:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 17:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 03:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 20:58	CH	EET MID

Client Sample ID: S-8, 0.5-1**Lab Sample ID: 880-24991-16****Date Collected: 02/20/23 14:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 03:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 21:04	CH	EET MID

Client Sample ID: S-9, 0-0.5**Lab Sample ID: 880-24991-17****Date Collected: 02/20/23 15:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		10			47301	02/26/23 21:10	CH	EET MID

Client Sample ID: S-9, 0.5-1**Lab Sample ID: 880-24991-18****Date Collected: 02/20/23 15:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-9, 0.5-1**Lab Sample ID: 880-24991-18****Date Collected: 02/20/23 15:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 04:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		5			47301	02/26/23 21:17	CH	EET MID

Client Sample ID: S-10, 0-0.5**Lab Sample ID: 880-24991-19****Date Collected: 02/20/23 15:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 04:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		20			47301	02/26/23 21:23	CH	EET MID

Client Sample ID: S-10, 0.5-1**Lab Sample ID: 880-24991-20****Date Collected: 02/20/23 15:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47713	03/03/23 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47723	03/03/23 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/06/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47229	02/25/23 09:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47219	02/26/23 05:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47099	02/23/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1			47301	02/26/23 21:29	CH	EET MID

Client Sample ID: S-11, 0-0.5**Lab Sample ID: 880-24991-21****Date Collected: 02/20/23 16:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 12:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-11, 0-0.5**Lab Sample ID: 880-24991-21****Date Collected: 02/20/23 16:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		20			47302	02/26/23 22:18	CH	EET MID

Client Sample ID: S-11, 0.5-1**Lab Sample ID: 880-24991-22****Date Collected: 02/20/23 16:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 13:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		10			47302	02/26/23 22:37	CH	EET MID

Client Sample ID: South, 0-0.5**Lab Sample ID: 880-24991-23****Date Collected: 02/20/23 16:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 13:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 22:43	CH	EET MID

Client Sample ID: Sout, 0.5-1**Lab Sample ID: 880-24991-24****Date Collected: 02/20/23 16:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 13:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 22:49	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: West, 0-0.5**Lab Sample ID: 880-24991-25****Date Collected: 02/20/23 17:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 14:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 22:55	CH	EET MID

Client Sample ID: West, 0.5-1**Lab Sample ID: 880-24991-26****Date Collected: 02/20/23 17:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 14:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 23:14	CH	EET MID

Client Sample ID: East, 0-0.5**Lab Sample ID: 880-24991-27****Date Collected: 02/20/23 17:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 20:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 15:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 23:20	CH	EET MID

Client Sample ID: East, 0.5-1**Lab Sample ID: 880-24991-28****Date Collected: 02/20/23 17:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: East, 0.5-1**Lab Sample ID: 880-24991-28****Date Collected: 02/20/23 17:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 15:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 23:26	CH	EET MID

Client Sample ID: North, 0-0.5**Lab Sample ID: 880-24991-29****Date Collected: 02/20/23 18:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 15:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 23:32	CH	EET MID

Client Sample ID: North,0.5-1**Lab Sample ID: 880-24991-30****Date Collected: 02/20/23 18:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 21:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 16:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/26/23 23:38	CH	EET MID

Client Sample ID: S-12, 0-0.5**Lab Sample ID: 880-24991-31****Date Collected: 02/20/23 18:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47338	02/27/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/02/23 21:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 16:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-12, 0-0.5**Lab Sample ID: 880-24991-31****Date Collected: 02/20/23 18:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		20			47302	02/26/23 23:44	CH	EET MID

Client Sample ID: S-12, 0.5-1**Lab Sample ID: 880-24991-32****Date Collected: 02/20/23 18:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 05:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		10			47302	02/27/23 00:03	CH	EET MID

Client Sample ID: S-13, 0-0.5**Lab Sample ID: 880-24991-33****Date Collected: 02/20/23 19:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		20			47302	02/27/23 00:09	CH	EET MID

Client Sample ID: S-13, 0.5-1**Lab Sample ID: 880-24991-34****Date Collected: 02/20/23 19:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		5			47302	02/27/23 00:27	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-14, 0-0.5**Lab Sample ID: 880-24991-35****Date Collected: 02/20/23 19:30****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 06:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		20			47302	02/27/23 00:34	CH	EET MID

Client Sample ID: S-14, 0.5-1**Lab Sample ID: 880-24991-36****Date Collected: 02/20/23 19:45****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 06:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		5			47302	02/27/23 00:40	CH	EET MID

Client Sample ID: S-15, 0-0.5**Lab Sample ID: 880-24991-37****Date Collected: 02/20/23 20:00****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 07:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 19:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		5			47302	02/27/23 00:46	CH	EET MID

Client Sample ID: S-15, 0.5-1**Lab Sample ID: 880-24991-38****Date Collected: 02/20/23 20:15****Matrix: Solid****Date Received: 02/21/23 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 07:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Client Sample ID: S-15, 0.5-1

Lab Sample ID: 880-24991-38

Date Collected: 02/20/23 20:15

Matrix: Solid

Date Received: 02/21/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 19:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/27/23 00:52	CH	EET MID

Client Sample ID: S-16, 0-0.5

Lab Sample ID: 880-24991-39

Date Collected: 02/20/23 20:30

Matrix: Solid

Date Received: 02/21/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 07:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 19:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/27/23 00:58	CH	EET MID

Client Sample ID: S-16, 0.5-1

Lab Sample ID: 880-24991-40

Date Collected: 02/20/23 20:45

Matrix: Solid

Date Received: 02/21/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	47541	03/01/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/02/23 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47660	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47328	02/27/23 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47230	02/25/23 09:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47239	02/26/23 20:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47100	02/23/23 15:18	KS	EET MID
Soluble	Analysis	300.0		1			47302	02/27/23 01:04	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:
ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Boyd X-Silverback

Job ID: 880-24991-1
SDG: 23-0105-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24991-1	S-1, 0-0.5	Solid	02/20/23 11:00	02/21/23 09:00
880-24991-2	S-1, 0.5-1	Solid	02/20/23 11:15	02/21/23 09:00
880-24991-3	S-2, 0-0.5	Solid	02/20/23 11:30	02/21/23 09:00
880-24991-4	S-2, 0.5-1	Solid	02/20/23 11:45	02/21/23 09:00
880-24991-5	S-3, 0-0.5	Solid	02/20/23 12:00	02/21/23 09:00
880-24991-6	S-3, 0.5-1	Solid	02/20/23 12:15	02/21/23 09:00
880-24991-7	S-4, 0-0.5	Solid	02/20/23 12:30	02/21/23 09:00
880-24991-8	S-4, 0.5-1	Solid	02/20/23 12:45	02/21/23 09:00
880-24991-9	S-5, 0-0.5	Solid	02/20/23 13:00	02/21/23 09:00
880-24991-10	S-5, 0.5-1	Solid	02/20/23 13:15	02/21/23 09:00
880-24991-11	S-6, 0-0.5	Solid	02/20/23 13:30	02/21/23 09:00
880-24991-12	S-6, 0.5-1	Solid	02/20/23 13:45	02/21/23 09:00
880-24991-13	S-7, 0-0.5	Solid	02/20/23 14:00	02/21/23 09:00
880-24991-14	S-7, 0.5-1	Solid	02/20/23 14:15	02/21/23 09:00
880-24991-15	S-8, 0-0.5	Solid	02/20/23 14:30	02/21/23 09:00
880-24991-16	S-8, 0.5-1	Solid	02/20/23 14:45	02/21/23 09:00
880-24991-17	S-9, 0-0.5	Solid	02/20/23 15:00	02/21/23 09:00
880-24991-18	S-9, 0.5-1	Solid	02/20/23 15:15	02/21/23 09:00
880-24991-19	S-10, 0-0.5	Solid	02/20/23 15:30	02/21/23 09:00
880-24991-20	S-10, 0.5-1	Solid	02/20/23 15:45	02/21/23 09:00
880-24991-21	S-11, 0-0.5	Solid	02/20/23 16:00	02/21/23 09:00
880-24991-22	S-11, 0.5-1	Solid	02/20/23 16:15	02/21/23 09:00
880-24991-23	South, 0-0.5	Solid	02/20/23 16:30	02/21/23 09:00
880-24991-24	Sout, 0.5-1	Solid	02/20/23 16:45	02/21/23 09:00
880-24991-25	West, 0-0.5	Solid	02/20/23 17:00	02/21/23 09:00
880-24991-26	West, 0.5-1	Solid	02/20/23 17:15	02/21/23 09:00
880-24991-27	East, 0-0.5	Solid	02/20/23 17:30	02/21/23 09:00
880-24991-28	East, 0.5-1	Solid	02/20/23 17:45	02/21/23 09:00
880-24991-29	North, 0-0.5	Solid	02/20/23 18:00	02/21/23 09:00
880-24991-30	North,0.5-1	Solid	02/20/23 18:15	02/21/23 09:00
880-24991-31	S-12, 0-0.5	Solid	02/20/23 18:30	02/21/23 09:00
880-24991-32	S-12, 0.5-1	Solid	02/20/23 18:45	02/21/23 09:00
880-24991-33	S-13, 0-0.5	Solid	02/20/23 19:00	02/21/23 09:00
880-24991-34	S-13, 0.5-1	Solid	02/20/23 19:15	02/21/23 09:00
880-24991-35	S-14, 0-0.5	Solid	02/20/23 19:30	02/21/23 09:00
880-24991-36	S-14, 0.5-1	Solid	02/20/23 19:45	02/21/23 09:00
880-24991-37	S-15, 0-0.5	Solid	02/20/23 20:00	02/21/23 09:00
880-24991-38	S-15, 0.5-1	Solid	02/20/23 20:15	02/21/23 09:00
880-24991-39	S-16, 0-0.5	Solid	02/20/23 20:30	02/21/23 09:00
880-24991-40	S-16, 0.5-1	Solid	02/20/23 20:45	02/21/23 09:00

~~3/8/2023~~ (Rev.

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No. 2878
CHAIN-OF-CUSTODY

3/8/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-24991-1

SDG Number: 23-0105-01

Login Number: 24991

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**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: Boyd X Silverback
Project Number: 23-0105-01
Location: New Mexico
Lab Order Number: 3D06018



Current Certification

Report Date: 04/20/23

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1 @ 1'	3D06018-01	Soil	04/04/23 08:30	04-06-2023 09:05
S1 @ 3'	3D06018-02	Soil	04/04/23 08:31	04-06-2023 09:05
S1 @ 5'	3D06018-03	Soil	04/04/23 08:32	04-06-2023 09:05
S1 @ 10'	3D06018-04	Soil	04/04/23 08:33	04-06-2023 09:05
S1 @ 15'	3D06018-05	Soil	04/04/23 08:34	04-06-2023 09:05
S2 @ 1'	3D06018-06	Soil	04/04/23 08:45	04-06-2023 09:05
S2 @ 3'	3D06018-07	Soil	04/04/23 08:46	04-06-2023 09:05
S2 @ 5'	3D06018-08	Soil	04/04/23 08:47	04-06-2023 09:05
S2 @ 10'	3D06018-09	Soil	04/04/23 08:48	04-06-2023 09:05
S2 @ 15'	3D06018-10	Soil	04/04/23 08:49	04-06-2023 09:05
S7 @ 1'	3D06018-11	Soil	04/04/23 09:00	04-06-2023 09:05
S7 @ 3'	3D06018-12	Soil	04/04/23 09:01	04-06-2023 09:05
S7 @ 5'	3D06018-13	Soil	04/04/23 09:02	04-06-2023 09:05
S7 @ 10'	3D06018-14	Soil	04/04/23 09:03	04-06-2023 09:05
S5 @ 1'	3D06018-15	Soil	04/04/23 09:30	04-06-2023 09:05
S5 @ 3'	3D06018-16	Soil	04/04/23 09:31	04-06-2023 09:05
S5 @ 5'	3D06018-17	Soil	04/04/23 09:32	04-06-2023 09:05
S5 @ 10'	3D06018-18	Soil	04/04/23 09:33	04-06-2023 09:05
S3 @ 1'	3D06018-19	Soil	04/04/23 09:45	04-06-2023 09:05
S3 @ 3'	3D06018-20	Soil	04/04/23 09:50	04-06-2023 09:05
S3 @ 5'	3D06018-21	Soil	04/04/23 09:55	04-06-2023 09:05
S3 @ 10'	3D06018-22	Soil	04/04/23 10:00	04-06-2023 09:05
S3 @ 15'	3D06018-23	Soil	04/04/23 10:05	04-06-2023 09:05
S4 @ 1'	3D06018-24	Soil	04/04/23 10:30	04-06-2023 09:05
S4 @ 3'	3D06018-25	Soil	04/04/23 10:35	04-06-2023 09:05
S4 @ 5'	3D06018-26	Soil	04/04/23 10:40	04-06-2023 09:05
S4 @ 10'	3D06018-27	Soil	04/04/23 10:45	04-06-2023 09:05
S6 @ 1'	3D06018-28	Soil	04/04/23 11:15	04-06-2023 09:05
S6 @ 3'	3D06018-29	Soil	04/04/23 11:20	04-06-2023 09:05
S6 @ 5'	3D06018-30	Soil	04/04/23 11:25	04-06-2023 09:05
S6 @ 10'	3D06018-31	Soil	04/04/23 11:30	04-06-2023 09:05
S11 @ 1'	3D06018-32	Soil	04/04/23 12:00	04-06-2023 09:05
S11 @ 3'	3D06018-33	Soil	04/04/23 12:05	04-06-2023 09:05
S11 @ 5'	3D06018-34	Soil	04/04/23 12:10	04-06-2023 09:05

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S11 @ 10'	3D06018-35	Soil	04/04/23 12:15	04-06-2023 09:05
S10 @ 1'	3D06018-36	Soil	04/04/23 12:45	04-06-2023 09:05
S10 @ 3'	3D06018-37	Soil	04/04/23 13:00	04-06-2023 09:05
S10 @ 5'	3D06018-38	Soil	04/04/23 13:05	04-06-2023 09:05
S10 @ 10'	3D06018-39	Soil	04/04/23 13:10	04-06-2023 09:05
S8 @ 1'	3D06018-40	Soil	04/04/23 13:30	04-06-2023 09:05
S8 @ 3'	3D06018-41	Soil	04/04/23 13:35	04-06-2023 09:05
S8 @ 5'	3D06018-42	Soil	04/04/23 13:40	04-06-2023 09:05
S8 @ 10'	3D06018-43	Soil	04/04/23 13:45	04-06-2023 09:05
S9 @ 1'	3D06018-44	Soil	04/04/23 14:15	04-06-2023 09:05
S9 @ 3'	3D06018-45	Soil	04/04/23 14:20	04-06-2023 09:05
S9 @ 5'	3D06018-46	Soil	04/04/23 14:25	04-06-2023 09:05
S9 @ 10'	3D06018-47	Soil	04/04/23 14:30	04-06-2023 09:05
S12 @ 1'	3D06018-48	Soil	04/05/23 09:00	04-06-2023 09:05
S12 @ 3'	3D06018-49	Soil	04/05/23 09:05	04-06-2023 09:05
S12 @ 5'	3D06018-50	Soil	04/05/23 09:10	04-06-2023 09:05
S12 @ 10'	3D06018-51	Soil	04/05/23 09:15	04-06-2023 09:05
S12 @ 15'	3D06018-52	Soil	04/05/23 09:25	04-06-2023 09:05
S13 @ 1'	3D06018-53	Soil	04/05/23 09:45	04-06-2023 09:05
S13 @ 3'	3D06018-54	Soil	04/05/23 09:50	04-06-2023 09:05
S13 @ 5'	3D06018-55	Soil	04/05/23 09:55	04-06-2023 09:05
S13 @ 10'	3D06018-56	Soil	04/05/23 10:00	04-06-2023 09:05
S14 @ 1'	3D06018-57	Soil	04/05/23 10:30	04-06-2023 09:05
S14 @ 3'	3D06018-58	Soil	04/05/23 10:35	04-06-2023 09:05
S14 @ 5'	3D06018-59	Soil	04/05/23 10:40	04-06-2023 09:05
S14 @ 10'	3D06018-60	Soil	04/05/23 10:45	04-06-2023 09:05
S14 @ 15'	3D06018-61	Soil	04/05/23 11:15	04-06-2023 09:05

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S1 @ 1'
3D06018-01 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	62.1 %		80-120		P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	119 %		80-120		P3D1206	04/12/23 14:36	04/13/23 00:51	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:56	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:56	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:56	TPH 8015M	
Surrogate: 1-Chlorooctane	85.3 %		70-130		P3D1105	04/11/23 11:45	04/15/23 17:56	TPH 8015M	
Surrogate: o-Terphenyl	97.1 %		70-130		P3D1105	04/11/23 11:45	04/15/23 17:56	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 17:56	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	5700	5.68	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 12:51	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S1 @ 3'
3D06018-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 03:39	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 18:21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 18:21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 18:21	TPH 8015M	
Surrogate: 1-Chlorooctane	82.6 %		70-130		P3D1105	04/11/23 11:45	04/15/23 18:21	TPH 8015M	
Surrogate: o-Terphenyl	95.3 %		70-130		P3D1105	04/11/23 11:45	04/15/23 18:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 18:21	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	890	1.12	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 13:12	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S1 @ 5'
3D06018-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:01	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 19:37	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 19:37	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 19:37	TPH 8015M	
Surrogate: 1-Chlorooctane	82.8 %		70-130		P3D1105	04/11/23 11:45	04/15/23 19:37	TPH 8015M	
Surrogate: o-Terphenyl	93.2 %		70-130		P3D1105	04/11/23 11:45	04/15/23 19:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 19:37	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	566	1.12	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 14:14	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S1 @ 10'
3D06018-04 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:22	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:02	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:02	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:02	TPH 8015M	
Surrogate: 1-Chlorooctane	82.9 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:02	TPH 8015M	
Surrogate: o-Terphenyl	94.8 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 20:02	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	502	1.16	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 14:34	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S1 @ 15'
3D06018-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.2 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.2 %		80-120		P3D1207	04/12/23 14:42	04/13/23 04:43	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:27	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:27	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:27	TPH 8015M	
Surrogate: 1-Chlorooctane	93.5 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:27	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:27	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 20:27	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	493	5.81	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 14:55	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S2 @ 1'

3D06018-06 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:05	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:52	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:52	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 20:52	TPH 8015M	
Surrogate: 1-Chlorooctane	82.9 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:52	TPH 8015M	
Surrogate: o-Terphenyl	95.6 %		70-130		P3D1105	04/11/23 11:45	04/15/23 20:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 20:52	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	7530	5.81	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 15:15	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S2 @ 3'
3D06018-07 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:26	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:17	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:17	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:17	TPH 8015M	
Surrogate: 1-Chlorooctane	83.1 %		70-130		P3D1105	04/11/23 11:45	04/15/23 21:17	TPH 8015M	
Surrogate: o-Terphenyl	95.5 %		70-130		P3D1105	04/11/23 11:45	04/15/23 21:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 21:17	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	695	1.11	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 15:36	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S2 @ 5'
3D06018-08 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 05:48	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:42	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:42	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 21:42	TPH 8015M	
Surrogate: 1-Chlorooctane	84.7 %		70-130		P3D1105	04/11/23 11:45	04/15/23 21:42	TPH 8015M	
Surrogate: o-Terphenyl	96.8 %		70-130		P3D1105	04/11/23 11:45	04/15/23 21:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 21:42	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	242	1.11	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 15:56	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S2 @ 10'
3D06018-09 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.7 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:09	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:08	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:08	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:08	TPH 8015M	
Surrogate: 1-Chlorooctane	83.9 %		70-130		P3D1105	04/11/23 11:45	04/15/23 22:08	TPH 8015M	
Surrogate: o-Terphenyl	94.9 %		70-130		P3D1105	04/11/23 11:45	04/15/23 22:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 22:08	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	417	1.11	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 16:17	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S2 @ 15'
3D06018-10 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:31	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:35	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:35	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 22:35	TPH 8015M	
Surrogate: 1-Chlorooctane	79.5 %		70-130		P3D1105	04/11/23 11:45	04/15/23 22:35	TPH 8015M	
Surrogate: o-Terphenyl	91.7 %		70-130		P3D1105	04/11/23 11:45	04/15/23 22:35	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 22:35	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	138	1.14	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 16:37	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S7 @ 1'
3D06018-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1207	04/12/23 14:42	04/13/23 06:52	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:02	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:02	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:02	TPH 8015M	
Surrogate: 1-Chlorooctane	80.3 %		70-130		P3D1105	04/11/23 11:45	04/15/23 23:02	TPH 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P3D1105	04/11/23 11:45	04/15/23 23:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 23:02	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17300	28.1	mg/kg dry	25	P3D0807	04/08/23 20:16	04/14/23 16:58	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S7 @ 3'
3D06018-12 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.2 %		80-120		P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P3D1207	04/12/23 14:42	04/13/23 07:57	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:29	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:29	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 23:29	TPH 8015M	
Surrogate: 1-Chlorooctane	79.3 %		70-130		P3D1105	04/11/23 11:45	04/15/23 23:29	TPH 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P3D1105	04/11/23 11:45	04/15/23 23:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 23:29	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2240	1.11	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 17:59	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S7 @ 5'
3D06018-13 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P3D1207	04/12/23 14:42	04/13/23 08:18	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 18:38	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 18:38	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 18:38	TPH 8015M	
Surrogate: 1-Chlorooctane	79.2 %		70-130		P3D1108	04/11/23 14:00	04/15/23 18:38	TPH 8015M	
Surrogate: o-Terphenyl	92.8 %		70-130		P3D1108	04/11/23 14:00	04/15/23 18:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 18:38	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	31.6	1.11	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 15:56	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S7 @ 10'
3D06018-14 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00120	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.8 %	80-120			P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.7 %	80-120			P3D1207	04/12/23 14:42	04/13/23 08:39	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	30.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:00	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:00	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:00	TPH 8015M	
Surrogate: 1-Chlorooctane	89.1 %	70-130			P3D1108	04/11/23 14:00	04/15/23 19:00	TPH 8015M	
Surrogate: o-Terphenyl	100 %	70-130			P3D1108	04/11/23 14:00	04/15/23 19:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 19:00	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	18.1	1.20	mg/kg dry	1	P3D1310	04/16/23 15:00	04/17/23 10:08	EPA 300.0	
% Moisture	17.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S5 @ 1'
3D06018-15 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:00	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:23	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:23	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane	73.8 %		70-130		P3D1108	04/11/23 14:00	04/15/23 19:23	TPH 8015M	
Surrogate: o-Terphenyl	82.2 %		70-130		P3D1108	04/11/23 14:00	04/15/23 19:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 19:23	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	7850	11.1	mg/kg dry	10	P3D1310	04/16/23 15:00	04/16/23 16:37	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S5 @ 3'
3D06018-16 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.6 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:21	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:45	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:45	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 19:45	TPH 8015M	
Surrogate: 1-Chlorooctane	82.7 %		70-130		P3D1108	04/11/23 14:00	04/15/23 19:45	TPH 8015M	
Surrogate: o-Terphenyl	90.4 %		70-130		P3D1108	04/11/23 14:00	04/15/23 19:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 19:45	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	70.3	1.11	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 17:39	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S5 @ 5'
3D06018-17 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.6 %		80-120		P3D1207	04/12/23 14:42	04/13/23 09:42	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:07	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:07	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:07	TPH 8015M	
Surrogate: 1-Chlorooctane	82.8 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:07	TPH 8015M	
Surrogate: o-Terphenyl	91.9 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:07	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 20:07	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	42.8	1.11	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 17:59	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S5 @ 10'
3D06018-18 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.7 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.1 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:03	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:30	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:30	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:30	TPH 8015M	
Surrogate: 1-Chlorooctane	87.1 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:30	TPH 8015M	
Surrogate: o-Terphenyl	98.4 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 20:30	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	13.0	1.09	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 18:20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S3 @ 1'
3D06018-19 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.9 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:23	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:52	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:52	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 20:52	TPH 8015M	
Surrogate: 1-Chlorooctane	86.1 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:52	TPH 8015M	
Surrogate: o-Terphenyl	96.8 %		70-130		P3D1108	04/11/23 14:00	04/15/23 20:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 20:52	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	79.7	1.09	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 18:40	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S3 @ 3'
3D06018-20 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.4 %		80-120		P3D1207	04/12/23 14:42	04/13/23 10:44	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:14	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:14	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:14	TPH 8015M	
Surrogate: 1-Chlorooctane	78.3 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:14	TPH 8015M	
Surrogate: o-Terphenyl	87.0 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 21:14	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	3440	5.62	mg/kg dry	5	P3D1310	04/16/23 15:00	04/16/23 19:01	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S3 @ 5'
3D06018-21 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.6 %		80-120		P3D1207	04/12/23 14:42	04/13/23 11:05	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:37	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:37	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:37	TPH 8015M	
Surrogate: 1-Chlorooctane	80.4 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:37	TPH 8015M	
Surrogate: o-Terphenyl	88.6 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 21:37	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.11	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 19:21	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S3 @ 10'
3D06018-22 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.1 %		80-120		P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 14:54	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:59	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:59	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 21:59	TPH 8015M	
Surrogate: 1-Chlorooctane	83.5 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:59	TPH 8015M	
Surrogate: o-Terphenyl	93.7 %		70-130		P3D1108	04/11/23 14:00	04/15/23 21:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 21:59	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	795	1.14	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 19:42	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S3 @ 15'
3D06018-23 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	89.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:15	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:06	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:06	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:06	TPH 8015M	
Surrogate: 1-Chlorooctane	82.5 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:06	TPH 8015M	
Surrogate: o-Terphenyl	93.3 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 23:06	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	494	11.8	mg/kg dry	10	P3D1310	04/16/23 15:00	04/16/23 20:43	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S4 @ 1'
3D06018-24 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.5 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:35	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:28	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:28	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:28	TPH 8015M	
Surrogate: 1-Chlorooctane	80.6 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:28	TPH 8015M	
Surrogate: o-Terphenyl	90.2 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 23:28	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7820	11.1	mg/kg dry	10	P3D1310	04/16/23 15:00	04/16/23 21:45	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S4 @ 3'
3D06018-25 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 15:56	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:51	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:51	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/15/23 23:51	TPH 8015M	
Surrogate: 1-Chlorooctane	79.4 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:51	TPH 8015M	
Surrogate: o-Terphenyl	89.0 %		70-130		P3D1108	04/11/23 14:00	04/15/23 23:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/11/23 14:00	04/15/23 23:51	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	79.3	1.10	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 22:06	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S4 @ 5'
3D06018-26 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:17	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:14	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:14	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:14	TPH 8015M	
Surrogate: 1-Chlorooctane	78.4 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:14	TPH 8015M	
Surrogate: o-Terphenyl	86.8 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 00:14	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	30.8	1.11	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 22:26	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S4 @ 10'
3D06018-27 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.7 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:37	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:36	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:36	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:36	TPH 8015M	
Surrogate: 1-Chlorooctane	83.6 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:36	TPH 8015M	
Surrogate: o-Terphenyl	92.7 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 00:36	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	117	5.62	mg/kg dry	5	P3D1310	04/16/23 15:00	04/16/23 22:47	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S6 @ 1'
3D06018-28 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.7 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P3D1308	04/13/23 12:11	04/13/23 16:58	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:59	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:59	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 00:59	TPH 8015M	
Surrogate: 1-Chlorooctane	88.1 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:59	TPH 8015M	
Surrogate: o-Terphenyl	94.7 %		70-130		P3D1108	04/11/23 14:00	04/16/23 00:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 00:59	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13300	29.1	mg/kg dry	25	P3D1310	04/16/23 15:00	04/16/23 23:07	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S6 @ 3'
3D06018-29 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 17:19	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:21	TPH 8015M	
Surrogate: 1-Chlorooctane	88.1 %		70-130		P3D1108	04/11/23 14:00	04/16/23 01:21	TPH 8015M	
Surrogate: o-Terphenyl	96.1 %		70-130		P3D1108	04/11/23 14:00	04/16/23 01:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 01:21	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	347	1.12	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 23:28	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S6 @ 5'
3D06018-30 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P3D1308	04/13/23 12:11	04/13/23 17:39	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:44	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:44	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 01:44	TPH 8015M	
Surrogate: 1-Chlorooctane	86.0 %		70-130		P3D1108	04/11/23 14:00	04/16/23 01:44	TPH 8015M	
Surrogate: o-Terphenyl	92.8 %		70-130		P3D1108	04/11/23 14:00	04/16/23 01:44	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 01:44	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	93.7	1.10	mg/kg dry	1	P3D1310	04/16/23 15:00	04/16/23 23:48	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S6 @ 10'
3D06018-31 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.9 %		80-120		P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 18:00	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:07	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:07	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:07	TPH 8015M	
Surrogate: 1-Chlorooctane	85.8 %		70-130		P3D1108	04/11/23 14:00	04/16/23 02:07	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P3D1108	04/11/23 14:00	04/16/23 02:07	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 02:07	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	63.3	5.88	mg/kg dry	5	P3D1310	04/16/23 15:00	04/17/23 00:09	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S11 @ 1'
3D06018-32 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.6 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.5 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:01	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:30	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:30	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1108	04/11/23 14:00	04/16/23 02:30	TPH 8015M	
Surrogate: 1-Chlorooctane	89.4 %		70-130		P3D1108	04/11/23 14:00	04/16/23 02:30	TPH 8015M	
Surrogate: o-Terphenyl	98.7 %		70-130		P3D1108	04/11/23 14:00	04/16/23 02:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 14:00	04/16/23 02:30	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1010	1.12	mg/kg dry	1	P3D1310	04/16/23 15:00	04/17/23 00:29	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S11 @ 3'
3D06018-33 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.6 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:22	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 05:54	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 05:54	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 05:54	TPH 8015M	
Surrogate: 1-Chlorooctane	87.6 %		70-130		P3D1205	04/12/23 10:00	04/16/23 05:54	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P3D1205	04/12/23 10:00	04/16/23 05:54	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 05:54	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	52.4	1.09	mg/kg dry	1	P3D1312	04/17/23 08:57	04/17/23 11:35	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S11 @ 5'
3D06018-34 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.5 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 19:42	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:17	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:17	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:17	TPH 8015M	
Surrogate: 1-Chlorooctane	90.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 06:17	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P3D1205	04/12/23 10:00	04/16/23 06:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 06:17	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	117	1.11	mg/kg dry	1	P3D1312	04/17/23 08:57	04/17/23 11:50	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S11 @ 10'
3D06018-35 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.2 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:03	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:39	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:39	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 06:39	TPH 8015M	
Surrogate: 1-Chlorooctane	94.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 06:39	TPH 8015M	
Surrogate: o-Terphenyl	108 %		70-130		P3D1205	04/12/23 10:00	04/16/23 06:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 06:39	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.2	1.12	mg/kg dry	1	P3D1312	04/17/23 08:57	04/19/23 09:46	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S10 @ 1'

3D06018-36 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.0 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:23	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:02	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:02	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:02	TPH 8015M	
Surrogate: 1-Chlorooctane	93.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:02	TPH 8015M	
Surrogate: o-Terphenyl	106 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 07:02	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	3610	5.95	mg/kg dry	5	P3D1312	04/17/23 08:57	04/17/23 12:18	EPA 300.0	
% Moisture	16.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S10 @ 3'

3D06018-37 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.1 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1308	04/13/23 12:11	04/13/23 20:43	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:25	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:25	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:25	TPH 8015M	
Surrogate: 1-Chlorooctane	89.7 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:25	TPH 8015M	
Surrogate: o-Terphenyl	95.7 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 07:25	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	711	1.11	mg/kg dry	1	P3D1312	04/17/23 08:57	04/17/23 12:33	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S10 @ 5'
3D06018-38 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.1 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:04	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:47	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:47	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 07:47	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:47	TPH 8015M	
Surrogate: o-Terphenyl	110 %		70-130		P3D1205	04/12/23 10:00	04/16/23 07:47	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 07:47	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	179	1.10	mg/kg dry	1	P3D1312	04/17/23 08:57	04/17/23 12:47	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S10 @ 10'
3D06018-39 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.8 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.4 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:24	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:10	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:10	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:10	TPH 8015M	
Surrogate: 1-Chlorooctane	82.0 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:10	TPH 8015M	
Surrogate: o-Terphenyl	88.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:10	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 08:10	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	84.0	1.19	mg/kg dry	1	P3D1312	04/17/23 08:57	04/19/23 10:39	EPA 300.0	
% Moisture	16.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S8 @ 1'
3D06018-40 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.9 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P3D1308	04/13/23 12:11	04/13/23 21:44	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:33	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:33	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:33	TPH 8015M	
Surrogate: 1-Chlorooctane	91.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:33	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 08:33	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	13800	11.9	mg/kg dry	10	P3D1312	04/17/23 08:57	04/18/23 11:46	EPA 300.0	
% Moisture	16.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S8 @ 3'
3D06018-41 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.5 %		80-120		P3D1308	04/13/23 12:11	04/13/23 22:05	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:55	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:55	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 08:55	TPH 8015M	
Surrogate: 1-Chlorooctane	86.6 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:55	TPH 8015M	
Surrogate: o-Terphenyl	94.6 %		70-130		P3D1205	04/12/23 10:00	04/16/23 08:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 08:55	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5010	5.81	mg/kg dry	5	P3D1312	04/17/23 08:57	04/18/23 12:00	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S8 @ 5'
3D06018-42 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.6 %		80-120		P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1309	04/13/23 12:15	04/14/23 00:49	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 09:18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 09:18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 09:18	TPH 8015M	
Surrogate: 1-Chlorooctane	94.3 %		70-130		P3D1205	04/12/23 10:00	04/16/23 09:18	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P3D1205	04/12/23 10:00	04/16/23 09:18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 09:18	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	891	1.11	mg/kg dry	1	P3D1312	04/17/23 08:57	04/18/23 12:15	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S8 @ 10'
3D06018-43 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.1 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:10	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:26	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:26	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:26	TPH 8015M	
Surrogate: 1-Chlorooctane	91.5 %		70-130		P3D1205	04/12/23 10:00	04/16/23 10:26	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P3D1205	04/12/23 10:00	04/16/23 10:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 10:26	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	138	5.88	mg/kg dry	5	P3D1312	04/17/23 08:57	04/18/23 12:58	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S9 @ 1'
3D06018-44 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.5 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:31	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:49	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:49	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 10:49	TPH 8015M	
Surrogate: 1-Chlorooctane	95.6 %		70-130		P3D1205	04/12/23 10:00	04/16/23 10:49	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P3D1205	04/12/23 10:00	04/16/23 10:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 10:49	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	9690	5.68	mg/kg dry	5	P3D1312	04/17/23 08:57	04/18/23 13:12	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S9 @ 3'
3D06018-45 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.1 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 01:51	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:11	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:11	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:11	TPH 8015M	
Surrogate: 1-Chlorooctane	90.0 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:11	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:11	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 11:11	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	336	1.09	mg/kg dry	1	P3D1312	04/17/23 08:57	04/18/23 13:26	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S9 @ 5'
3D06018-46 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:12	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:33	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:33	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:33	TPH 8015M	
Surrogate: 1-Chlorooctane	87.8 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:33	TPH 8015M	
Surrogate: o-Terphenyl	96.2 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 11:33	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	337	1.11	mg/kg dry	1	P3D1312	04/17/23 08:57	04/18/23 13:41	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S9 @ 10'
3D06018-47 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.0 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:33	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:56	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:56	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 11:56	TPH 8015M	
Surrogate: 1-Chlorooctane	91.9 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:56	TPH 8015M	
Surrogate: o-Terphenyl	100 %		70-130		P3D1205	04/12/23 10:00	04/16/23 11:56	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 11:56	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3020	11.8	mg/kg dry	10	P3D1312	04/17/23 08:57	04/18/23 13:55	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S12 @ 1'
3D06018-48 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.9 %		80-120		P3D1309	04/13/23 12:15	04/14/23 02:53	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:18	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:18	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:18	TPH 8015M	
Surrogate: 1-Chlorooctane	87.0 %		70-130		P3D1205	04/12/23 10:00	04/16/23 12:18	TPH 8015M	
Surrogate: o-Terphenyl	94.4 %		70-130		P3D1205	04/12/23 10:00	04/16/23 12:18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 12:18	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1810	5.88	mg/kg dry	5	P3D1312	04/17/23 08:57	04/18/23 14:39	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S12 @ 3'
3D06018-49 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.7 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:14	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:40	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:40	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 12:40	TPH 8015M	
Surrogate: 1-Chlorooctane	86.2 %		70-130		P3D1205	04/12/23 10:00	04/16/23 12:40	TPH 8015M	
Surrogate: o-Terphenyl	93.5 %		70-130		P3D1205	04/12/23 10:00	04/16/23 12:40	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 12:40	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	328	1.10	mg/kg dry	1	P3D1312	04/17/23 08:57	04/18/23 14:53	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S12 @ 5'
3D06018-50 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.5 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:35	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:03	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:03	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:03	TPH 8015M	
Surrogate: 1-Chlorooctane	91.3 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:03	TPH 8015M	
Surrogate: o-Terphenyl	97.4 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:03	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 13:03	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	334	1.10	mg/kg dry	1	P3D1312	04/17/23 08:57	04/18/23 15:07	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S12 @ 10'

3D06018-51 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.9 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.9 %		80-120		P3D1309	04/13/23 12:15	04/14/23 03:55	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:26	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:26	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:26	TPH 8015M	
Surrogate: 1-Chlorooctane	86.8 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:26	TPH 8015M	
Surrogate: o-Terphenyl	92.8 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 13:26	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1690	5.62	mg/kg dry	5	P3D1312	04/17/23 08:57	04/18/23 15:22	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S12 @ 15'
3D06018-52 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.4 %		80-120		P3D1309	04/13/23 12:15	04/14/23 04:59	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:48	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:48	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P3D1205	04/12/23 10:00	04/16/23 13:48	TPH 8015M	
Surrogate: 1-Chlorooctane	94.2 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:48	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P3D1205	04/12/23 10:00	04/16/23 13:48	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	04/12/23 10:00	04/16/23 13:48	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3650	12.2	mg/kg dry	10	P3D1312	04/17/23 08:57	04/18/23 15:36	EPA 300.0	
% Moisture	18.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S13 @ 1'
3D06018-53 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.1 %		80-120		P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 05:20	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:28	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:28	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:28	TPH 8015M	
Surrogate: 1-Chlorooctane	88.2 %		70-130		P3D1403	04/14/23 09:50	04/16/23 19:28	TPH 8015M	
Surrogate: o-Terphenyl	98.4 %		70-130		P3D1403	04/14/23 09:50	04/16/23 19:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 19:28	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	997	1.14	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 18:40	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S13 @ 3'
3D06018-54 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.2 %		80-120		P3D1309	04/13/23 12:15	04/14/23 05:42	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:53	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:53	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 19:53	TPH 8015M	
Surrogate: 1-Chlorooctane	87.2 %		70-130		P3D1403	04/14/23 09:50	04/16/23 19:53	TPH 8015M	
Surrogate: o-Terphenyl	96.3 %		70-130		P3D1403	04/14/23 09:50	04/16/23 19:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 19:53	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	424	1.10	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 19:01	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S13 @ 5'
3D06018-55 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:03	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:17	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:17	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:17	TPH 8015M	
Surrogate: 1-Chlorooctane	84.3 %		70-130		P3D1403	04/14/23 09:50	04/16/23 20:17	TPH 8015M	
Surrogate: o-Terphenyl	93.8 %		70-130		P3D1403	04/14/23 09:50	04/16/23 20:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 20:17	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	159	1.12	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 19:21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S13 @ 10'
3D06018-56 (Soil)

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

BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.3 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:25	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:41	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:41	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 20:41	TPH 8015M	
Surrogate: 1-Chlorooctane	86.8 %		70-130		P3D1403	04/14/23 09:50	04/16/23 20:41	TPH 8015M	
Surrogate: o-Terphenyl	95.2 %		70-130		P3D1403	04/14/23 09:50	04/16/23 20:41	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 20:41	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	28.2	1.10	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 19:42	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

S14 @ 1'

3D06018-57 (Soil)

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

BTEx by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.6 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.3 %		80-120		P3D1309	04/13/23 12:15	04/14/23 06:46	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 18:45	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 18:45	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 18:45	TPH 8015M	
Surrogate: 1-Chlorooctane	86.9 %		70-130		P3D1403	04/14/23 09:50	04/17/23 18:45	TPH 8015M	
Surrogate: o-Terphenyl	97.0 %		70-130		P3D1403	04/14/23 09:50	04/17/23 18:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 18:45	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	4960	5.62	mg/kg dry	5	P3D1411	04/14/23 16:00	04/15/23 20:02	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S14 @ 3'
3D06018-58 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.1 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.0 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:07	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:28	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:28	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:28	TPH 8015M	
Surrogate: 1-Chlorooctane	92.3 %		70-130		P3D1403	04/14/23 09:50	04/16/23 21:28	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P3D1403	04/14/23 09:50	04/16/23 21:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 21:28	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	79.5	1.09	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 20:23	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S14 @ 5'
3D06018-59 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.3 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:29	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:52	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:52	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 21:52	TPH 8015M	
Surrogate: 1-Chlorooctane	84.3 %		70-130		P3D1403	04/14/23 09:50	04/16/23 21:52	TPH 8015M	
Surrogate: o-Terphenyl	94.2 %		70-130		P3D1403	04/14/23 09:50	04/16/23 21:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 21:52	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	55.8	1.11	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 20:43	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S14 @ 10'
3D06018-60 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P3D1309	04/13/23 12:15	04/14/23 07:50	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:16	TPH 8015M	
Surrogate: 1-Chlorooctane	84.3 %		70-130		P3D1403	04/14/23 09:50	04/16/23 22:16	TPH 8015M	
Surrogate: o-Terphenyl	93.2 %		70-130		P3D1403	04/14/23 09:50	04/16/23 22:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 22:16	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.1	1.14	mg/kg dry	1	P3D1411	04/14/23 16:00	04/15/23 21:04	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S14 @ 15'
3D06018-61 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.9 %		80-120		P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.8 %		80-120		P3D1309	04/13/23 12:15	04/14/23 08:12	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:41	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:41	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1403	04/14/23 09:50	04/16/23 22:41	TPH 8015M	
Surrogate: 1-Chlorooctane	85.9 %		70-130		P3D1403	04/14/23 09:50	04/16/23 22:41	TPH 8015M	
Surrogate: o-Terphenyl	96.0 %		70-130		P3D1403	04/14/23 09:50	04/16/23 22:41	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/14/23 09:50	04/16/23 22:41	calc	

General Chemistry Parameters by EPA / Standard Methods

Chloride	36.7	1.18	mg/kg dry	1	P3D1411	04/14/23 16:00	04/17/23 01:10	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1109	04/11/23 14:40	04/12/23 09:31	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1206 - * DEFAULT PREP *****

LCS (P3D1206-BS1)

Prepared & Analyzed: 04/12/23

Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

LCS Dup (P3D1206-BS1)

Prepared & Analyzed: 04/12/23

Benzene	0.109	0.00100	mg/kg	0.100		109	80-120	3.52	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	5.33	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	6.16	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120	5.85	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	5.66	20	
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.0	80-120			

Calibration Blank (P3D1206-CCB1)

Prepared & Analyzed: 04/12/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.3	80-120			

Calibration Blank (P3D1206-CCB2)

Prepared & Analyzed: 04/12/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0730		"	0.120		60.8	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.141		"	0.120		117	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1206 - * DEFAULT PREP *****

Calibration Blank (P3D1206-CCB3)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0696		"	0.120		58.0	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		119	80-120			

Calibration Check (P3D1206-CCV1)

Prepared & Analyzed: 04/12/23

Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0919	0.00100	"	0.100		91.9	80-120			
Ethylbenzene	0.0871	0.00100	"	0.100		87.1	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.1	80-120			
Xylene (o)	0.0901	0.00100	"	0.100		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0989		"	0.120		82.4	75-125			

Calibration Check (P3D1206-CCV2)

Prepared & Analyzed: 04/12/23

Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.0951	0.00100	"	0.100		95.1	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.0971	0.00100	"	0.100		97.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0756		"	0.120		63.0	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.143		"	0.120		119	75-125			

Calibration Check (P3D1206-CCV3)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0887	0.00100	mg/kg	0.100		88.7	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.6	80-120			
Xylene (o)	0.0864	0.00100	"	0.100		86.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		118	75-125			
Surrogate: 4-Bromofluorobenzene	0.0737		"	0.120		61.4	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1206 - * DEFAULT PREP *****

Matrix Spike (P3D1206-MS1)		Source: 3D06002-01		Prepared: 04/12/23 Analyzed: 04/13/23						
Benzene	0.0645	0.00115	mg/kg dry	0.115	ND	56.1	80-120			QM-05
Toluene	0.0518	0.00115	"	0.115	ND	45.1	80-120			QM-05
Ethylbenzene	0.0360	0.00115	"	0.115	ND	31.3	80-120			QM-05
Xylene (p/m)	0.0640	0.00230	"	0.230	ND	27.9	80-120			QM-05
Xylene (o)	0.0318	0.00115	"	0.115	ND	27.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.162		"	0.138		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.0813		"	0.138		58.9	80-120			S-GC

Matrix Spike Dup (P3D1206-MSD1)		Source: 3D06002-01		Prepared: 04/12/23 Analyzed: 04/13/23						
Benzene	0.0802	0.00115	mg/kg dry	0.115	ND	69.8	80-120	21.8	20	QM-05
Toluene	0.0666	0.00115	"	0.115	ND	57.9	80-120	25.0	20	QM-05
Ethylbenzene	0.0474	0.00115	"	0.115	ND	41.3	80-120	27.4	20	QM-05
Xylene (p/m)	0.0839	0.00230	"	0.230	ND	36.5	80-120	26.8	20	QM-05
Xylene (o)	0.0419	0.00115	"	0.115	ND	36.5	80-120	27.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0856		"	0.138		62.0	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.165		"	0.138		120	80-120			

Batch P3D1207 - * DEFAULT PREP *****

Blank (P3D1207-BLK1)				Prepared: 04/12/23 Analyzed: 04/13/23						
Benzene	ND	0.00100	mg/kg							
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	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1207 - * DEFAULT PREP *****

LCS (P3D1207-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.101	0.00100	mg/kg	0.100		101	80-120			
Toluene	0.0985	0.00100	"	0.100		98.5	80-120			
Ethylbenzene	0.0961	0.00100	"	0.100		96.1	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.0	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			

LCS Dup (P3D1207-BSD1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0895	0.00100	mg/kg	0.100		89.5	80-120	11.9	20	
Toluene	0.0872	0.00100	"	0.100		87.2	80-120	12.2	20	
Ethylbenzene	0.0855	0.00100	"	0.100		85.5	80-120	11.7	20	
Xylene (p/m)	0.162	0.00200	"	0.200		80.8	80-120	6.18	20	
Xylene (o)	0.0817	0.00100	"	0.100		81.7	80-120	12.3	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.9	80-120			

Calibration Blank (P3D1207-CCB1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.0696		"	0.120		58.0	80-120			S-GC

Calibration Blank (P3D1207-CCB2)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1207 - * DEFAULT PREP *****

Calibration Check (P3D1207-CCV1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0887	0.00100	mg/kg	0.100		88.7	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.6	80-120			
Xylene (o)	0.0864	0.00100	"	0.100		86.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		118	75-125			
Surrogate: 4-Bromofluorobenzene	0.0737		"	0.120		61.4	75-125			S-GC

Calibration Check (P3D1207-CCV2)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0933	0.00100	"	0.100		93.3	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.7	80-120			
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.5	75-125			

Calibration Check (P3D1207-CCV3)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.105	0.00100	mg/kg	0.100		105	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.0806	0.00100	"	0.100		80.6	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	80-120			
Xylene (o)	0.0872	0.00100	"	0.100		87.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0978		"	0.120		81.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.2	75-125			

Matrix Spike (P3D1207-MS1)

Source: 3D06018-02

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0722	0.00112	mg/kg dry	0.112	ND	64.2	80-120			QM-05
Toluene	0.0619	0.00112	"	0.112	ND	55.1	80-120			QM-05
Ethylbenzene	0.0547	0.00112	"	0.112	ND	48.7	80-120			QM-05
Xylene (p/m)	0.0982	0.00225	"	0.225	ND	43.7	80-120			QM-05
Xylene (o)	0.0511	0.00112	"	0.112	ND	45.5	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.136		"	0.135		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.135		92.8	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1207 - * DEFAULT PREP *****

Matrix Spike Dup (P3D1207-MSD1)		Source: 3D06018-02		Prepared: 04/12/23		Analyzed: 04/13/23				
Benzene	0.0816	0.00112	mg/kg dry	0.112	ND	72.7	80-120	12.3	20	QM-05
Toluene	0.0730	0.00112	"	0.112	ND	64.9	80-120	16.4	20	QM-05
Ethylbenzene	0.0647	0.00112	"	0.112	ND	57.6	80-120	16.7	20	QM-05
Xylene (p/m)	0.116	0.00225	"	0.225	ND	51.6	80-120	16.6	20	QM-05
Xylene (o)	0.0599	0.00112	"	0.112	ND	53.3	80-120	15.9	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.131		"	0.135		97.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.135		101	80-120			

Batch P3D1308 - * DEFAULT PREP *****

Blank (P3D1308-BLK1)		Prepared & Analyzed: 04/13/23								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0966		"	0.120		80.5	80-120			

LCS (P3D1308-BS1)		Prepared & Analyzed: 04/13/23								
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120			
Xylene (o)	0.0970	0.00100	"	0.100		97.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1308 - * DEFAULT PREP *****

LCS Dup (P3D1308-BSD1)

Prepared & Analyzed: 04/13/23

Benzene	0.110	0.00100	mg/kg	0.100		110	80-120	1.03	20	
Toluene	0.102	0.00100	"	0.100		102	80-120	0.552	20	
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120	0.123	20	
Xylene (p/m)	0.180	0.00200	"	0.200		89.8	80-120	0.422	20	
Xylene (o)	0.0976	0.00100	"	0.100		97.6	80-120	0.627	20	
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Calibration Blank (P3D1308-CCB1)

Prepared & Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.0978		"	0.120		81.5	80-120			

Calibration Blank (P3D1308-CCB2)

Prepared & Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0964		"	0.120		80.4	80-120			

Calibration Blank (P3D1308-CCB3)

Prepared & Analyzed: 04/13/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		83.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1308 - * DEFAULT PREP *****

Calibration Check (P3D1308-CCV1)

Prepared & Analyzed: 04/13/23

Benzene	0.101	0.00100	mg/kg	0.100		101	80-120			
Toluene	0.0874	0.00100	"	0.100		87.4	80-120			
Ethylbenzene	0.0802	0.00100	"	0.100		80.2	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.0	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.3	75-125			

Calibration Check (P3D1308-CCV2)

Prepared & Analyzed: 04/13/23

Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0964	0.00100	"	0.100		96.4	80-120			
Ethylbenzene	0.0853	0.00100	"	0.100		85.3	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	80-120			
Xylene (o)	0.0929	0.00100	"	0.100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.0986		"	0.120		82.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	75-125			

Calibration Check (P3D1308-CCV3)

Prepared & Analyzed: 04/13/23

Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.0991	0.00100	"	0.100		99.1	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100		88.1	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.4	80-120			
Xylene (o)	0.0942	0.00100	"	0.100		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

Matrix Spike (P3D1308-MS1)

Source: 3D06018-22

Prepared & Analyzed: 04/13/23

Benzene	0.0760	0.00114	mg/kg dry	0.114	ND	66.9	80-120			QM-05
Toluene	0.0684	0.00114	"	0.114	ND	60.1	80-120			QM-05
Ethylbenzene	0.0650	0.00114	"	0.114	ND	57.2	80-120			QM-05
Xylene (p/m)	0.121	0.00227	"	0.227	ND	53.0	80-120			QM-05
Xylene (o)	0.0640	0.00114	"	0.114	ND	56.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.124		"	0.136		91.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.136		101	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1308 - * DEFAULT PREP *****

Matrix Spike Dup (P3D1308-MSD1)		Source: 3D06018-22		Prepared & Analyzed: 04/13/23						
Benzene	0.0857	0.00114	mg/kg dry	0.114	ND	75.4	80-120	11.9	20	QM-05
Toluene	0.0793	0.00114	"	0.114	ND	69.8	80-120	14.9	20	QM-05
Ethylbenzene	0.0760	0.00114	"	0.114	ND	66.8	80-120	15.6	20	QM-05
Xylene (p/m)	0.140	0.00227	"	0.227	ND	61.8	80-120	15.3	20	QM-05
Xylene (o)	0.0746	0.00114	"	0.114	ND	65.6	80-120	15.3	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.139		"	0.136		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.136		93.9	80-120			

Batch P3D1309 - * DEFAULT PREP *****

Blank (P3D1309-BLK1)		Prepared: 04/13/23 Analyzed: 04/14/23								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	80-120			

LCS (P3D1309-BS1)		Prepared & Analyzed: 04/13/23								
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0978	0.00100	"	0.100		97.8	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.2	80-120			
Xylene (o)	0.0962	0.00100	"	0.100		96.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1309 - * DEFAULT PREP *****

LCS Dup (P3D1309-BSD1)

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	5.47	20	
Toluene	0.0961	0.00100	"	0.100		96.1	80-120	5.72	20	
Ethylbenzene	0.0922	0.00100	"	0.100		92.2	80-120	5.85	20	
Xylene (p/m)	0.167	0.00200	"	0.200		83.3	80-120	5.65	20	
Xylene (o)	0.0909	0.00100	"	0.100		90.9	80-120	5.75	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5	80-120			

Calibration Blank (P3D1309-CCB1)

Prepared & Analyzed: 04/13/23

Benzene	0.00		ug/kg							
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	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		83.9	80-120			

Calibration Blank (P3D1309-CCB2)

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

Calibration Check (P3D1309-CCV1)

Prepared & Analyzed: 04/13/23

Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.0991	0.00100	"	0.100		99.1	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100		88.1	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.4	80-120			
Xylene (o)	0.0942	0.00100	"	0.100		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

Permian Basin Environmental Lab, L.P.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3D1309 - * DEFAULT PREP *****

Calibration Check (P3D1309-CCV2)

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.0906	0.00100	"	0.100		90.6	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.0939	0.00100	"	0.100		93.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			

Calibration Check (P3D1309-CCV3)

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0999	0.00100	"	0.100		99.9	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.0	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			

Matrix Spike (P3D1309-MS1)

Source: 3D06018-42

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.0820	0.00111	mg/kg dry	0.111	ND	73.8	80-120			QM-05
Toluene	0.0756	0.00111	"	0.111	ND	68.0	80-120			QM-05
Ethylbenzene	0.0690	0.00111	"	0.111	ND	62.1	80-120			QM-05
Xylene (p/m)	0.124	0.00222	"	0.222	ND	55.8	80-120			QM-05
Xylene (o)	0.0643	0.00111	"	0.111	ND	57.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.132		"	0.133		98.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.133		101	80-120			

Matrix Spike Dup (P3D1309-MSD1)

Source: 3D06018-42

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	0.0851	0.00111	mg/kg dry	0.111	ND	76.6	80-120	3.76	20	QM-05
Toluene	0.0758	0.00111	"	0.111	ND	68.2	80-120	0.250	20	QM-05
Ethylbenzene	0.0688	0.00111	"	0.111	ND	62.0	80-120	0.226	20	QM-05
Xylene (p/m)	0.124	0.00222	"	0.222	ND	55.9	80-120	0.179	20	QM-05
Xylene (o)	0.0652	0.00111	"	0.111	ND	58.7	80-120	1.44	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.124		"	0.133		93.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.133		101	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1105 - TX 1005

Blank (P3D1105-BLK1)

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	84.3		"	100		84.3	70-130			
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	70-130			

LCS (P3D1105-BS1)

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	946	25.0	mg/kg	1000		94.6	75-125			
>C12-C28	931	25.0	"	1000		93.1	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

LCS Dup (P3D1105-BSD1)

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	960	25.0	mg/kg	1000		96.0	75-125	1.39	20	
>C12-C28	913	25.0	"	1000		91.3	75-125	1.96	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

Calibration Check (P3D1105-CCV1)

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	502	25.0	mg/kg	500		100	85-115			
>C12-C28	538	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

Matrix Spike (P3D1105-MS1)

Source: 3D06018-12

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	797	27.8	mg/kg dry	1110	ND	71.7	75-125			QM-05
>C12-C28	767	27.8	"	1110	ND	69.0	75-125			QM-05
Surrogate: 1-Chlorooctane	99.2		"	111		89.2	70-130			
Surrogate: o-Terphenyl	41.9		"	55.6		75.4	70-130			

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1105 - TX 1005

Matrix Spike Dup (P3D1105-MSD1)	Source: 3D06018-12			Prepared: 04/11/23		Analyzed: 04/16/23				
C6-C12	859	27.8	mg/kg dry	1110	ND	77.3	75-125	7.48	20	
>C12-C28	829	27.8	"	1110	ND	74.6	75-125	7.72	20	QM-05
Surrogate: 1-Chlorooctane	107		"	111		96.6	70-130			
Surrogate: o-Terphenyl	45.3		"	55.6		81.5	70-130			

Batch P3D1108 - TX 1005

Blank (P3D1108-BLK1)				Prepared: 04/11/23		Analyzed: 04/15/23				
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	85.6		"	100		85.6	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			

LCS (P3D1108-BS1)				Prepared: 04/11/23		Analyzed: 04/15/23				
C6-C12	1010	25.0	mg/kg	1000		101	75-125			
>C12-C28	905	25.0	"	1000		90.5	75-125			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

LCS Dup (P3D1108-BSD1)				Prepared: 04/11/23		Analyzed: 04/15/23				
C6-C12	962	25.0	mg/kg	1000		96.2	75-125	4.40	20	
>C12-C28	840	25.0	"	1000		84.0	75-125	7.47	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.2	70-130			

Calibration Check (P3D1108-CCV1)				Prepared: 04/11/23		Analyzed: 04/15/23				
C6-C12	531	25.0	mg/kg	500		106	85-115			
>C12-C28	496	25.0	"	500		99.1	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.9	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1108 - TX 1005

Calibration Check (P3D1108-CCV2)

Prepared: 04/11/23 Analyzed: 04/15/23

C6-C12	508	25.0	mg/kg	500		102	85-115			
>C12-C28	506	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	48.5		"	50.0		96.9	70-130			

Matrix Spike (P3D1108-MS1)

Source: 3D06018-32

Prepared: 04/11/23 Analyzed: 04/16/23

C6-C12	846	28.1	mg/kg dry	1120	11.6	74.3	75-125			QM-05
>C12-C28	769	28.1	"	1120	11.0	67.4	75-125			QM-05
Surrogate: 1-Chlorooctane	103		"	112		91.6	70-130			
Surrogate: o-Terphenyl	48.6		"	56.2		86.5	70-130			

Matrix Spike Dup (P3D1108-MSD1)

Source: 3D06018-32

Prepared: 04/11/23 Analyzed: 04/16/23

C6-C12	868	28.1	mg/kg dry	1120	11.6	76.2	75-125	2.62	20	
>C12-C28	785	28.1	"	1120	11.0	68.9	75-125	2.19	20	QM-05
Surrogate: 1-Chlorooctane	102		"	112		91.1	70-130			
Surrogate: o-Terphenyl	43.7		"	56.2		77.8	70-130			

Batch P3D1205 - TX 1005

Blank (P3D1205-BLK1)

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.9		"	100		83.9	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

LCS (P3D1205-BS1)

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	988	25.0	mg/kg	1000		98.8	75-125			
>C12-C28	897	25.0	"	1000		89.7	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1205 - TX 1005

LCS Dup (P3D1205-BSD1)

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	987	25.0	mg/kg	1000		98.7	75-125	0.141	20	
>C12-C28	899	25.0	"	1000		89.9	75-125	0.213	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

Calibration Check (P3D1205-CCV1)

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	497	25.0	mg/kg	500		99.3	85-115			
>C12-C28	481	25.0	"	500		96.2	85-115			
Surrogate: 1-Chlorooctane	95.0		"	100		95.0	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.5	70-130			

Calibration Check (P3D1205-CCV2)

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	501	25.0	mg/kg	500		100	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	95.8		"	100		95.8	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.1	70-130			

Calibration Check (P3D1205-CCV3)

Prepared: 04/12/23 Analyzed: 04/17/23

C6-C12	520	25.0	mg/kg	500		104	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.0	70-130			

Matrix Spike (P3D1205-MS1)

Source: 3D06018-52

Prepared: 04/12/23 Analyzed: 04/16/23

C6-C12	1120	30.5	mg/kg dry	1220	19.0	90.6	75-125			
>C12-C28	998	30.5	"	1220	ND	81.9	75-125			
Surrogate: 1-Chlorooctane	124		"	122		101	70-130			
Surrogate: o-Terphenyl	56.0		"	61.0		91.9	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1205 - TX 1005

Matrix Spike Dup (P3D1205-MSD1)	Source: 3D06018-52			Prepared: 04/12/23		Analyzed: 04/16/23				
C6-C12	1100	30.5	mg/kg dry	1220	19.0	88.4	75-125	2.48	20	
>C12-C28	955	30.5	"	1220	ND	78.3	75-125	4.45	20	
Surrogate: 1-Chlorooctane	121		"	122		98.9	70-130			
Surrogate: o-Terphenyl	55.3		"	61.0		90.8	70-130			

Batch P3D1403 - TX 1005

Blank (P3D1403-BLK1)				Prepared: 04/14/23		Analyzed: 04/16/23				
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	86.4		"	100		86.4	70-130			
Surrogate: o-Terphenyl	46.6		"	50.0		93.3	70-130			

LCS (P3D1403-BS1)				Prepared: 04/14/23		Analyzed: 04/16/23				
C6-C12	1000	25.0	mg/kg	1000		100	75-125			
>C12-C28	947	25.0	"	1000		94.7	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			

LCS Dup (P3D1403-BSD1)				Prepared: 04/14/23		Analyzed: 04/16/23				
C6-C12	1010	25.0	mg/kg	1000		101	75-125	1.06	20	
>C12-C28	950	25.0	"	1000		95.0	75-125	0.356	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

Calibration Check (P3D1403-CCV1)				Prepared: 04/14/23		Analyzed: 04/16/23				
C6-C12	509	25.0	mg/kg	500		102	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1403 - TX 1005

Calibration Check (P3D1403-CCV2)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	515	25.0	mg/kg	500		103	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.7	70-130			
Duplicate (P3D1403-DUP1)				Source: 3D12003-02		Prepared: 04/14/23 Analyzed: 04/17/23				
C6-C12	ND	25.3	mg/kg dry		ND				20	
>C12-C28	ND	25.3	"		ND				20	
Surrogate: 1-Chlorooctane	80.4		"	101		79.6	70-130			
Surrogate: o-Terphenyl	41.8		"	50.5		82.8	70-130			

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D0807 - * DEFAULT PREP *****

Blank (P3D0807-BLK1)

Prepared: 04/08/23 Analyzed: 04/13/23

Chloride	ND	1.00	mg/kg							
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LCS (P3D0807-BS1)

Prepared: 04/08/23 Analyzed: 04/13/23

Chloride	18.4		mg/kg	20.0		92.1	90-110			
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LCS Dup (P3D0807-BSD1)

Prepared: 04/08/23 Analyzed: 04/13/23

Chloride	18.6		mg/kg	20.0		93.2	90-110	1.13	10	
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Calibration Check (P3D0807-CCV1)

Prepared: 04/08/23 Analyzed: 04/13/23

Chloride	18.5		mg/kg	20.0		92.5	90-110			
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Calibration Check (P3D0807-CCV2)

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	18.2		mg/kg	20.0		90.9	90-110			
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Calibration Check (P3D0807-CCV3)

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	18.1		mg/kg	20.0		90.4	90-110			
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Matrix Spike (P3D0807-MS1)

Source: 3D06002-01

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	112		mg/kg	100	4.28	108	80-120			
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Matrix Spike (P3D0807-MS2)

Source: 3D06018-11

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	154		mg/kg	100	61.5	92.2	80-120			
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Matrix Spike Dup (P3D0807-MSD1)

Source: 3D06002-01

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	114		mg/kg	100	4.28	110	80-120	1.69	20	
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Matrix Spike Dup (P3D0807-MSD2)

Source: 3D06018-11

Prepared: 04/08/23 Analyzed: 04/14/23

Chloride	155		mg/kg	100	61.5	93.2	80-120	0.665	20	
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Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1109 - *** DEFAULT PREP ***										
Blank (P3D1109-BLK1)					Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	ND	0.1	%							
Blank (P3D1109-BLK2)					Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	ND	0.1	%							
Blank (P3D1109-BLK3)					Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	ND	0.1	%							
Duplicate (P3D1109-DUP1)					Source: 3D06018-10 Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P3D1109-DUP2)					Source: 3D06018-20 Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P3D1109-DUP3)					Source: 3D06018-35 Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P3D1109-DUP4)					Source: 3D06018-45 Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P3D1109-DUP5)					Source: 3D06018-60 Prepared: 04/11/23 Analyzed: 04/12/23					
% Moisture	11.0	0.1	%		12.0			8.70	20	
Batch P3D1310 - *** DEFAULT PREP ***										
Blank (P3D1310-BLK1)					Prepared: 04/13/23 Analyzed: 04/16/23					
Chloride	ND	1.00	mg/kg							

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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1310 - * DEFAULT PREP *****

LCS (P3D1310-BS1)

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	19.1		mg/kg	20.0		95.3	90-110			
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LCS Dup (P3D1310-BSD1)

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	19.3		mg/kg	20.0		96.6	90-110	1.29	10	
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Calibration Check (P3D1310-CCV1)

Prepared & Analyzed: 04/16/23

Chloride	18.5		mg/kg	20.0		92.6	90-110			
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Calibration Check (P3D1310-CCV2)

Prepared & Analyzed: 04/16/23

Chloride	18.6		mg/kg	20.0		93.2	90-110			
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Calibration Check (P3D1310-CCV3)

Prepared: 04/16/23 Analyzed: 04/17/23

Chloride	18.8		mg/kg	20.0		93.8	90-110			
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Matrix Spike (P3D1310-MS1)

Source: 3D06018-15

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	175		mg/kg	100	70.6	105	80-120			
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Matrix Spike (P3D1310-MS2)

Source: 3D06018-23

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	106		mg/kg	100	4.20	102	80-120			
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Matrix Spike Dup (P3D1310-MSD1)

Source: 3D06018-15

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	175		mg/kg	100	70.6	105	80-120	0.0319	20	
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Matrix Spike Dup (P3D1310-MSD2)

Source: 3D06018-23

Prepared: 04/13/23 Analyzed: 04/16/23

Chloride	108		mg/kg	100	4.20	104	80-120	1.28	20	
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Batch P3D1312 - * DEFAULT PREP *****

Blank (P3D1312-BLK1)

Prepared & Analyzed: 04/17/23

Chloride	ND	1.00	mg/kg							
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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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1312 - *** DEFAULT PREP ***										
LCS (P3D1312-BS1)				Prepared & Analyzed: 04/17/23						
Chloride	23.9	1.00	mg/kg	24.0		99.7	90-110			
LCS Dup (P3D1312-BSD1)				Prepared & Analyzed: 04/17/23						
Chloride	23.9	1.00	mg/kg	24.0		99.7	90-110	0.0376	10	
Calibration Check (P3D1312-CCV1)				Prepared & Analyzed: 04/17/23						
Chloride	24.3	1.00	mg/kg	24.0		101	90-110			
Calibration Check (P3D1312-CCV2)				Prepared: 04/17/23 Analyzed: 04/18/23						
Chloride	24.1	1.00	mg/kg	24.0		100	90-110			
Matrix Spike (P3D1312-MS1)		Source: 3D06018-39		Prepared: 04/17/23 Analyzed: 04/18/23						
Chloride	141		mg/kg	100	0.705	141	80-120			QM-05
Matrix Spike Dup (P3D1312-MSD1)		Source: 3D06018-39		Prepared: 04/17/23 Analyzed: 04/18/23						
Chloride	142		mg/kg	100	0.705	141	80-120	0.158	20	QM-05
Batch P3D1411 - *** DEFAULT PREP ***										
Blank (P3D1411-BLK1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D1411-BS1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Chloride	18.5		mg/kg	20.0		92.3	90-110			
LCS Dup (P3D1411-BSD1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Chloride	18.6		mg/kg	20.0		93.1	90-110	0.847	10	

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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3D1411 - * DEFAULT PREP *****

Calibration Check (P3D1411-CCV1)

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	18.3		mg/kg	20.0		91.4	90-110			
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Calibration Check (P3D1411-CCV2)

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	18.3		mg/kg	20.0		91.7	90-110			
----------	------	--	-------	------	--	------	--------	--	--	--

Calibration Check (P3D1411-CCV3)

Prepared: 04/14/23 Analyzed: 04/16/23

Chloride	18.4		mg/kg	20.0		91.9	90-110			
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Matrix Spike (P3D1411-MS1)

Source: 3D14003-11

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	110		mg/kg	100	9.80	101	80-120			
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Matrix Spike (P3D1411-MS2)

Source: 3D06018-61

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	98.9		mg/kg	100	0.312	98.6	80-120			
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Matrix Spike Dup (P3D1411-MSD1)

Source: 3D14003-11

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	110		mg/kg	100	9.80	100	80-120	0.428	20	
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Matrix Spike Dup (P3D1411-MSD2)

Source: 3D06018-61

Prepared: 04/14/23 Analyzed: 04/15/23

Chloride	99.0		mg/kg	100	0.312	98.6	80-120	0.0333	20	
----------	------	--	-------	-----	-------	------	--------	--------	----	--

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

Notes and Definitions

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

ROI Received on Ice

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

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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:

4/20/2023

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.

Project: Boyd X Silverback

P.O. Box 50685

Project Number: 23-0105-01

Midland TX, 79710

Project Manager: Mark Larson

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

Lauson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Mark Lauson/Robert Nelson

DATE: 4-6-23 PAGE 1 OF 5
PO#: LAB WORK ORDER# 3006018
PROJECT LOCATION OR NAME: Boyd X Silverback
LAI PROJECT #: 23-0105-01 COLLECTOR: JH + KG

CHAIN-OF-CUSTODY

No 2031

Page 89 of 93

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
S1 1'		4-4-23	830	S	1					X		
3'			831							X		
5'			832							X		
10'			833							X		
15'			834							X		
S2 1			845							X		
3			846							X		
5			847							X		
10			848							X		
15			849							X		
S7 1			900							X		
3			901							X		
5			902							X		
10			903							X		
S5 1		4-4-23	930	S	1					X		
TOTAL 15										X		

RELINQUISHED BY: (Signature) Mark Lauson

DATE/TIME 4-6-23 9:15

RECEIVED BY: (Signature) Theresa Boudreau

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: PBC

TURN AROUND TIME

NORMAL ☒

1 DAY ☐

2 DAY ☐

OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 14.0

THERM#: 13

NCF

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☒ HAND DELIVERED

Released to Imaging: 1/4/2024 8:53:35 AM

ssociates, Inc.
Environmental Consultants

Midland, TX 79701

432-687-0901

DATE: 7-6-65 PAGE 3 OF 3
PO#: _____ LAB WORK ORDER#: 3006018
PROJECT LOCATION OR NAME: 130yd X Silverback
LAI PROJECT #: 23-0105-01 COLLECTOR: JYI, KGG

COLLECTOR: JH, KG

Page 91 of 93

Released to Imaging: 1/4/2024 8:53:35 AM

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: *Mike Larson / Robert Nelson*

DATE: 4-6-23 PAGE 4 OF 4
PO#: LAB WORK ORDER# 3D06018
PROJECT LOCATION OR NAME: Boyd X Silverback
LAI PROJECT #: 23-0105-01 COLLECTOR: JH / KG

CHAIN-OF-CUSTODY

No 2034

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES		FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED		
S11	5	4-4-23	1425	S	1							
S12	10	4-4-23	1430									
	3	4-5-23	900									
	5		910									
	10		915									
	15		925									
S13	1		945									
	3		950									
	5		955									
	10		1000									
S14	1		1030									
	3		1035									
	5		1040									
	10	4-5-23	1045	S	1							
TOTAL	15											

RELINQUISHED BY: (Signature) *[Signature]* DATE/TIME: 4-6-23 9:05

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

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

LABORATORY: *PBE*

RECEIVED BY: (Signature) *[Signature]* DATE/TIME: 4-6-23 9:05

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

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

TURN AROUND TIME: NORMAL

1 DAY ☐ 2 DAY ☐ OTHER ☐

LABORATORY USE ONLY: RECEIVING TEMP: -14.0 THERM#: NCF 13

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL # ☒ HAND DELIVERED

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



Analytical Report Rev. 1

Prepared for:

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

Project: Boyd X Silverback

Project Number: 23-0105-01

Location: New Mexico

Lab Order Number: 3E22006



Current Certification

Report Date: 06/06/23

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S9 @ 15'	3E22006-01	Soil	05/17/23 12:10	05-22-2023 10:17
S9 @ 20'	3E22006-02	Soil	05/17/23 12:30	05-22-2023 10:17
S12 @ 20'	3E22006-03	Soil	05/17/23 13:00	05-22-2023 10:17
S12 @ 25'	3E22006-04	Soil	05/17/23 13:10	05-22-2023 10:17

On secondary review by the analyst, it was discovered, that 1 clean sample had been confused with another sample that Had positive results. This was corrected and this revised report reflects the proper sample.

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S9 @ 15'
3E22006-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00116	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Toluene	ND	0.00116	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Xylene (o)	ND	0.00116	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Surrogate: 4-Bromofluorobenzene	107 %	80-120			P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B
Surrogate: 1,4-Difluorobenzene	97.4 %	80-120			P3E2412	05/24/23 15:33	05/26/23 04:29	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:03	TPH 8015M
>C12-C28	ND	29.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:03	TPH 8015M
>C28-C35	ND	29.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:03	TPH 8015M
Surrogate: 1-Chlorooctane	92.2 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:03	TPH 8015M
Surrogate: o-Terphenyl	107 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:03	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/23/23 13:00	05/27/23 16:03	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.43	1.16	mg/kg dry	1	P3E2210	05/22/23 08:00	05/23/23 18:55	EPA 300.0
% Moisture	14.0	0.1	%	1	P3E2311	05/23/23 08:25	05/23/23 08:30	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S9 @ 20'
3E22006-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Toluene	ND	0.00118	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Xylene (o)	ND	0.00118	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Surrogate: 4-Bromofluorobenzene	105 %	80-120			P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B
Surrogate: 1,4-Difluorobenzene	96.8 %	80-120			P3E2412	05/24/23 15:33	05/26/23 04:49	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:27	TPH 8015M
>C12-C28	ND	29.4	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:27	TPH 8015M
>C28-C35	ND	29.4	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:27	TPH 8015M
Surrogate: 1-Chlorooctane	85.6 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:27	TPH 8015M
Surrogate: o-Terphenyl	100 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:27	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	05/23/23 13:00	05/27/23 16:27	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.18	mg/kg dry	1	P3E2210	05/22/23 08:00	05/23/23 19:10	EPA 300.0
% Moisture	15.0	0.1	%	1	P3E2311	05/23/23 08:25	05/23/23 08:30	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S12 @ 20'
3E22006-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Toluene	ND	0.00120	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Ethylbenzene	ND	0.00120	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Xylene (o)	ND	0.00120	mg/kg dry	1	P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Surrogate: 1,4-Difluorobenzene	97.3 %	80-120			P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B
Surrogate: 4-Bromofluorobenzene	107 %	80-120			P3E2412	05/24/23 15:33	05/26/23 05:10	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:50	TPH 8015M
>C12-C28	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:50	TPH 8015M
>C28-C35	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 16:50	TPH 8015M
Surrogate: 1-Chlorooctane	84.3 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:50	TPH 8015M
Surrogate: o-Terphenyl	100 %	70-130			P3E2321	05/23/23 13:00	05/27/23 16:50	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/23/23 13:00	05/27/23 16:50	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P3E2210	05/22/23 08:00	05/23/23 19:24	EPA 300.0
% Moisture	17.0	0.1	%	1	P3E2311	05/23/23 08:25	05/23/23 08:30	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

S12 @ 25'
3E22006-04 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Toluene	ND	0.00120	mg/kg dry	1	P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Ethylbenzene	ND	0.00120	mg/kg dry	1	P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Xylene (o)	ND	0.00120	mg/kg dry	1	P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Surrogate: 1,4-Difluorobenzene	100 %	80-120			P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B
Surrogate: 4-Bromofluorobenzene	93.2 %	80-120			P3E2606	05/26/23 13:46	05/26/23 20:00	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 17:14	TPH 8015M
>C12-C28	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 17:14	TPH 8015M
>C28-C35	ND	30.1	mg/kg dry	1	P3E2321	05/23/23 13:00	05/27/23 17:14	TPH 8015M
Surrogate: 1-Chlorooctane	86.5 %	70-130			P3E2321	05/23/23 13:00	05/27/23 17:14	TPH 8015M
Surrogate: o-Terphenyl	101 %	70-130			P3E2321	05/23/23 13:00	05/27/23 17:14	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/23/23 13:00	05/27/23 17:14	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P3E2210	05/22/23 08:00	05/23/23 19:38	EPA 300.0
% Moisture	17.0	0.1	%	1	P3E2311	05/23/23 08:25	05/23/23 08:30	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2412 - * DEFAULT PREP *****

Blank (P3E2412-BLK1)

Prepared: 05/24/23 Analyzed: 05/25/23

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.3	80-120			

LCS (P3E2412-BS1)

Prepared: 05/24/23 Analyzed: 05/25/23

Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	80-120			

LCS Dup (P3E2412-BSD1)

Prepared: 05/24/23 Analyzed: 05/25/23

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120	0.628	20	
Toluene	0.113	0.00100	"	0.100		113	80-120	1.60	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	3.19	20	
Xylene (p/m)	0.211	0.00200	"	0.200		106	80-120	2.86	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	1.20	20	
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.2	80-120			

Calibration Blank (P3E2412-CCB1)

Prepared: 05/24/23 Analyzed: 05/25/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2412 - * DEFAULT PREP *****

Calibration Blank (P3E2412-CCB2)

Prepared: 05/24/23 Analyzed: 05/26/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.8	80-120			

Calibration Check (P3E2412-CCV1)

Prepared: 05/24/23 Analyzed: 05/25/23

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.3	75-125			

Calibration Check (P3E2412-CCV2)

Prepared: 05/24/23 Analyzed: 05/26/23

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.5	75-125			

Calibration Check (P3E2412-CCV3)

Prepared: 05/24/23 Analyzed: 05/26/23

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.3	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2412 - * DEFAULT PREP *****

Matrix Spike (P3E2412-MS1)		Source: 3E18004-03		Prepared: 05/24/23		Analyzed: 05/26/23				
Benzene	0.113	0.00105	mg/kg dry	0.105	ND	107	80-120			
Toluene	0.0865	0.00105	"	0.105	ND	82.2	80-120			
Ethylbenzene	0.0744	0.00105	"	0.105	ND	70.7	80-120			QM-05
Xylene (p/m)	0.161	0.00211	"	0.211	ND	76.7	80-120			QM-05
Xylene (o)	0.0832	0.00105	"	0.105	ND	79.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.123		"	0.126		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.126		110	80-120			

Matrix Spike Dup (P3E2412-MSD1)		Source: 3E18004-03		Prepared: 05/24/23		Analyzed: 05/26/23				
Benzene	0.122	0.00105	mg/kg dry	0.105	ND	115	80-120	7.31	20	
Toluene	0.0932	0.00105	"	0.105	ND	88.5	80-120	7.43	20	
Ethylbenzene	0.0802	0.00105	"	0.105	ND	76.2	80-120	7.47	20	QM-05
Xylene (p/m)	0.174	0.00211	"	0.211	ND	82.9	80-120	7.76	20	
Xylene (o)	0.0905	0.00105	"	0.105	ND	86.0	80-120	8.35	20	
Surrogate: 4-Bromofluorobenzene	0.141		"	0.126		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.126		98.5	80-120			

Batch P3E2606 - * DEFAULT PREP *****

Blank (P3E2606-BLK1)				Prepared & Analyzed: 05/26/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2606 - * DEFAULT PREP *****

LCS (P3E2606-BS1)

Prepared & Analyzed: 05/26/23

Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0969	0.00100	"	0.100		96.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.9	80-120			

LCS Dup (P3E2606-BSD1)

Prepared & Analyzed: 05/26/23

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120	1.52	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	4.39	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	5.19	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120	5.05	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	4.25	20	
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			

Calibration Blank (P3E2606-CCB1)

Prepared & Analyzed: 05/26/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	80-120			

Calibration Blank (P3E2606-CCB2)

Prepared & Analyzed: 05/26/23

Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2606 - * DEFAULT PREP *****

Calibration Check (P3E2606-CCV1)				Prepared & Analyzed: 05/26/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0898	0.00100	"	0.100		89.8	80-120			
Ethylbenzene	0.0874	0.00100	"	0.100		87.4	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.1	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			

Calibration Check (P3E2606-CCV2)				Prepared & Analyzed: 05/26/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P3E2606-CCV3)				Prepared: 05/26/23 Analyzed: 05/27/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			

Matrix Spike (P3E2606-MS1)				Source: 3E22011-01		Prepared: 05/26/23 Analyzed: 05/27/23				
Benzene	0.0864	0.00102	mg/kg dry	0.102	ND	84.7	80-120			
Toluene	0.0762	0.00102	"	0.102	0.00434	70.4	80-120			QM-05
Ethylbenzene	0.0707	0.00102	"	0.102	0.0109	58.6	80-120			QM-05
Xylene (p/m)	0.127	0.00204	"	0.204	0.116	5.54	80-120			QM-05
Xylene (o)	0.0602	0.00102	"	0.102	0.0412	18.6	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.127		"	0.122		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.122		106	80-120			

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - 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 P3E2606 - *** DEFAULT PREP ***

Matrix Spike Dup (P3E2606-MSD1)	Source: 3E22011-01			Prepared: 05/26/23 Analyzed: 05/27/23						
Benzene	0.0924	0.00102	mg/kg dry	0.102	ND	90.6	80-120	6.69	20	
Toluene	0.0809	0.00102	"	0.102	0.00434	75.0	80-120	6.36	20	QM-05
Ethylbenzene	0.0718	0.00102	"	0.102	0.0109	59.6	80-120	1.76	20	QM-05
Xylene (p/m)	0.129	0.00204	"	0.204	0.116	6.35	80-120	13.5	20	QM-05
Xylene (o)	0.0596	0.00102	"	0.102	0.0412	18.0	80-120	3.34	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.129		"	0.122		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.122		103	80-120			

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2321 - TX 1005										
Blank (P3E2321-BLK1) Prepared: 05/23/23 Analyzed: 05/27/23										
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.0		"	100		83.0	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.4	70-130			
LCS (P3E2321-BS1) Prepared: 05/23/23 Analyzed: 05/27/23										
C6-C12	1170	25.0	mg/kg	1000		117	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	61.2		"	50.0		122	70-130			
LCS Dup (P3E2321-BSD1) Prepared: 05/23/23 Analyzed: 05/27/23										
C6-C12	1140	25.0	mg/kg	1000		114	75-125	2.60	20	
>C12-C28	1050	25.0	"	1000		105	75-125	2.53	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	58.8		"	50.0		118	70-130			
Calibration Blank (P3E2321-CCB1) Prepared: 05/23/23 Analyzed: 05/27/23										
C6-C12	10.0		mg/kg							
>C12-C28	21.6		"							
Surrogate: 1-Chlorooctane	84.0		"	100		84.0	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.8	70-130			
Calibration Check (P3E2321-CCV1) Prepared: 05/23/23 Analyzed: 05/27/23										
C6-C12	528	25.0	mg/kg	500		106	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E2321 - TX 1005

Duplicate (P3E2321-DUP1)	Source: 3E19006-01		Prepared: 05/23/23 Analyzed: 05/27/23							
C6-C12	477	126	mg/kg dry		433			9.81	20	
>C12-C28	9580	126	"		9100			5.15	20	
Surrogate: 1-Chlorooctane	102		"	101		101	70-130			
Surrogate: o-Terphenyl	48.4		"	50.5		95.8	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: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E2210 - * DEFAULT PREP *****

Blank (P3E2210-BLK1)

Prepared & Analyzed: 05/22/23

Chloride	ND	1.00	mg/kg							
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LCS (P3E2210-BS1)

Prepared & Analyzed: 05/22/23

Chloride	18.6		mg/kg	20.0		92.8	90-110			
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LCS Dup (P3E2210-BSD1)

Prepared & Analyzed: 05/22/23

Chloride	18.2		mg/kg	20.0		91.0	90-110	1.96	10	
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Calibration Check (P3E2210-CCV1)

Prepared & Analyzed: 05/22/23

Chloride	18.7		mg/kg	20.0		93.5	90-110			
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Calibration Check (P3E2210-CCV2)

Prepared & Analyzed: 05/22/23

Chloride	19.3		mg/kg	20.0		96.7	90-110			
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Matrix Spike (P3E2210-MS1)

Source: 3E17002-17

Prepared & Analyzed: 05/22/23

Chloride	117		mg/kg	100	17.9	99.2	80-120			
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Matrix Spike Dup (P3E2210-MSD1)

Source: 3E17002-17

Prepared & Analyzed: 05/22/23

Chloride	119		mg/kg	100	17.9	101	80-120	1.31	20	
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Batch P3E2311 - * DEFAULT PREP *****

Blank (P3E2311-BLK1)

Prepared & Analyzed: 05/23/23

% Moisture	ND	0.1	%							
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Blank (P3E2311-BLK2)

Prepared & Analyzed: 05/23/23

% Moisture	ND	0.1	%							
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Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Boyd X Silverback
P.O. Box 50685	Project Number: 23-0105-01
Midland TX, 79710	Project Manager: Mark Larson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2311 - *** DEFAULT PREP ***										
Blank (P3E2311-BLK3)				Prepared & Analyzed: 05/23/23						
% Moisture	ND	0.1	%							
Duplicate (P3E2311-DUP1)				Source: 3E22009-03 Prepared & Analyzed: 05/23/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3E2311-DUP2)				Source: 3E22011-01 Prepared & Analyzed: 05/23/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3E2311-DUP3)				Source: 3E22015-02 Prepared & Analyzed: 05/23/23						
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P3E2311-DUP4)				Source: 3E22015-12 Prepared & Analyzed: 05/23/23						
% Moisture	ND	0.1	%		ND				20	

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

Project: Boyd X Silverback
Project Number: 23-0105-01
Project Manager: Mark Larson

Notes and Definitions

ROI Received on Ice

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

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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:

6/6/2023

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.

Project: Boyd X Silverback

P.O. Box 50685

Project Number: 23-0105-01

Midland TX, 79710

Project Manager: Mark Larson

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

Appendix E

Photographic Documentation

Photographic Documentation
Boyd X – Silverback Produced Water Release

Surface chloride staining in pasture area, viewing to the west.



Surface chloride staining in pasture area, viewing to the south.

Photographic Documentation
Boyd X – Silverback Produced Water Release



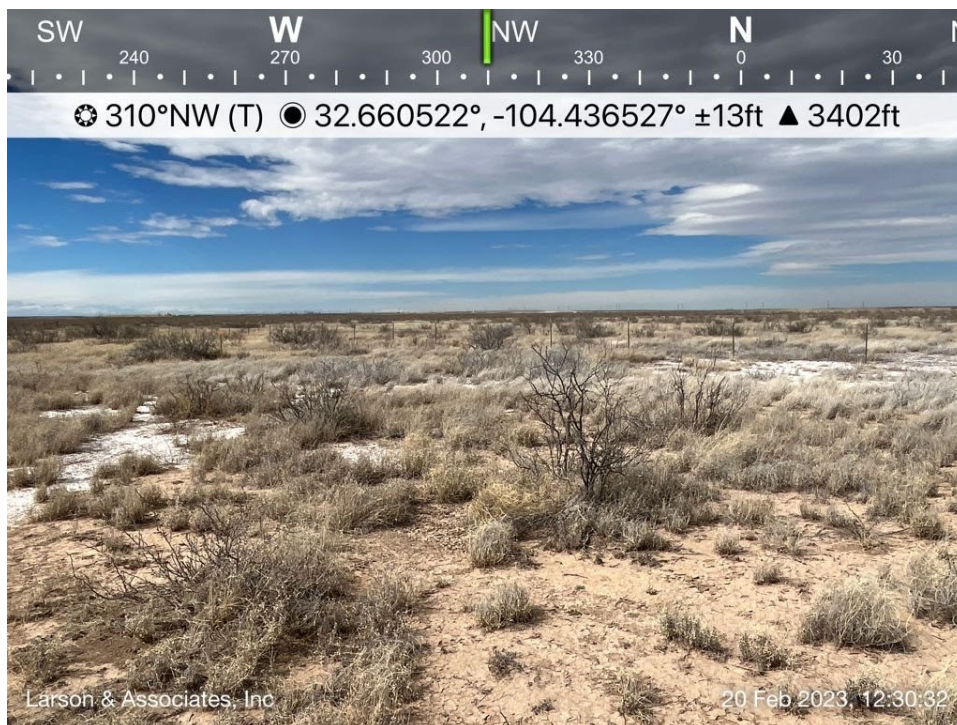
Surface chloride staining in pasture area, viewing to the east.



Surface chloride staining in pasture area, viewing to the east.

Photographic Documentation
Boyd X – Silverback Produced Water Release

Surface chloride staining in pasture area, viewing to the west.



Surface chloride staining in pasture area, viewing to the northwest.

Photographic Documentation
Boyd X – Silverback Produced Water Release

Surface chloride staining in pasture area, viewing to the north.



Surface chloride staining in pasture area and release source, viewing to the north.

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	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Cause of Release

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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: _____	Title: _____
Signature: <u>Mark Ritchie</u>	Date: <u>7/18/23</u>
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>7/18/2023</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: 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

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____


SILVERBACK
EXPLORATION

Volume Justification Sheet– Silverback Form 018

Volume Justification

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

Justification: Based on the dimensions of the spill, the estimated volume is 11.8bbls.

								ENTER TEXT
								FORMULA
SPILL CALCULATOR								
		FT	IN	FRESH WATER	PRODUCED WATER	CHLORIDES	TOT VOL	
LENGTH ft,		111.90	1342.80	☐	☒	0	13.83358074	
WIDEST POINT ft.		100.00	1200.00		SPILL SOURCE	0	2	
NARROWEST POINT ft.		14.00	168.00		Layflat hose	0	11.83358074	
AVERAGE WIDTH ft.		57.00	684.00					
DEEPEST POINT in.		0.25	3.00			TOTAL FRESH	TOTAL PRODUCED	
SHALLOWEST POINT in.		0	0.00				13.83358074	
AVERAGE DEPTH ft.		0.010417	1.50					
AVERAGE DEPTH in.			0.125			MINIUS DUMMY NUMBER OF 2		
						TOTAL FRESH	TOTAL PRODUCED	
TOTAL CUBIC FEET		66.440625					12.83358074	
TOTAL CUBIC INCHES		114,809.4						
TOTAL SPILL VOLUME GAL		497.0103909						
TOTAL SPILL VOLUME BBL		11.83358074						

Approved by: Mark Ritchie

Date: 7/18/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 241783

CONDITIONS

Operator: Silverback Operating II, LLC 19707 IH10 West, Suite 201 San Antonio, TX 78256	OGRID: 330968
	Action Number: 241783
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	1/4/2024