August 6, 2024

New Mexico Oil Conservation Division
8801 Horizon Blvd. Suite 260
Albuquerque, NM 87113

Attn: Scott Rodgers
Environmental Specialist
P: 575-469-1830
E: scott.rodgers@emnrd.nm.gov

RE: **Pliny the Elder #215H- Deferral Request Report**
Incident Number: nAPP2232633250
GPS: 32.338831, -104.20227
Lea County, NM
ESRR Project No. 2299

Mr. Rodgers,

Earth Systems Response & Restoration (ESRR), on behalf of Civitas Resources (Civitas), presents the following Deferral Request Report (DRR) detailing all remedial efforts to date associated with an inadvertent release of produced water at the former Tap Rock Operating (Tap Rock) location Pliny the Elder #215H (Site). Based on laboratory analytical results from the most recent soil sampling events, Civitas is requesting to defer residual impacted soil below and/or in close proximity to wellheads, subsurface pipelines, and above ground equipment until the Site undergoes major reconstruction or plugging and abandonment (P&A), whichever comes first.

Site Location & Incident Description

The Site is located in Unit D, Section 04, Township 23 South, Range 27 East, in Lea County, New Mexico (32.338831, -104.20227) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1**).

On November 21, 2022, a frac tank overflowed causing the release of approximately 612 barrels (bbls) of produced water onto the pad and adjacent pasture with no fluids recovered. Immediate notice was given via email to the New Mexico Oil Conservation Division (NMOCD) on November 22, 2022. Civitas reported the release to the NMOCD on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on November 22, 2022, and was subsequently assigned Incident Number nAPP2232633250.

Background

From December 2022 through January 2023, a Tap Rock contracted third-party consultant completed initial release delineation activities followed by the completion of a Remediation Plan (RP), detailing all activities and proposed remedial actions. The RP was submitted and received by the NMOCD on February 21, 2023, and conditionally approved on June 22, 2023, stating the following:

"The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area needs confirmation samples representing no more than 200 ft2. 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 work plan has been reviewed."

During March 2023 through October 2023, the third-party consultant continued delineation activities and oversaw the excavation of approximately 10,860 cubic yards via mechanical equipment. A Remediation and Closure Report (RCR) was then completed, detailing all soil sampling and excavation activities. The RCR was submitted and received by the NMOCD on December 18, 2023, and rejected on March 19, 2024, due to the following:

"This application has been rejected because the C-141 is incomplete and/or incorrect. The submitted application indicates a conflict between the questions answered and the attachments that have been submitted. The answer "Yes" was selected when requesting remediation closure and reclamation approval; however, your attachments indicate that your intent is to request a deferral approval. An incident will not be granted remediation closure or reclamation approval until all contamination above closure standards is addressed and reclamation meets the requirements of 19.15.29.13 NMAC. Please review the December 1, 2023 Public Notice titled "Implementation of Digital C-141 and New Incident Statuses" found on the EMNRD website. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstance."

On August 5, 2024, Civitas requested an extension to the past due deadline in order to get back in compliance prior to submittal of this DRR. NMOCD approved the request and updated the due date to October 7, 2024.

Site Characterization

As previously described in the approved RP, the Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The following proximities were estimated by ESRR:

- Between ½ and 1 mile of any continuously flowing watercourse or any other significant watercourse;
- Greater than 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Between 300 and 500 feet of any occupied permanent residence, school, hospital, institution or church;
- Between 1,000 feet and ½ mile of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between 1,000 feet and ½ mile of any other freshwater well or spring;
- Between 1 and 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1 and 5 miles of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1 and 5 miles of any unstable area (i.e. high karst potential); and
- Between 1 and 5 miles of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**.

Based on the results from the desktop review and estimated depth to groundwater to be between 50 and 100 feet below ground surface (bgs) at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria‡
Chloride	10,000 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	2,500 mg/kg
Benzene	10 mg/kg

Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) ... 50 mg/kg

‡*The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.*

Deferral Request

Based on laboratory analytical results presented in both the RP and RCR, impacts associated with the Area of Concern have been delineated, excavated to the maximum extent practical (MEP), and removed from the Site. The MEP was excavated surrounding all surface and/ or subsurface pipelines and production equipment adhering to Tap Rock's safety precautions and encroachment guidelines to ensure the health and safety of on-site personnel and for the structural integrity of utilities. In all areas where excavation was not limited, residual impacts were removed in accordance with the applicable Site Closure Criteria (**Figure 2**). As a result, residual impacts appear to solely reside on the production pad, below and/ or in close proximity to wellheads, subsurface pipelines, and above ground equipment within the top 4 feet bgs, which have been vertically and horizontally delineated in conjunction with the excavation soil samples presented in the RP and RCR. In response to the recently rejected RCR and upon further review, Civitas respectfully requests deferral of approximately 800 cubic yards of impacted soil below and/ or in close proximity to the wellheads, subsurface pipelines, and above ground equipment associated with Incident Number nAPP2232633250 until the Site undergoes major facility deconstruction or P&A, whichever comes first (**Figure 3**). No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD.

Civitas believes the timely initial response and other completed remedial actions have mitigated impacts at the Site and meet the requirements set forth in NMAC regulation to be protective of human health, the environment, and groundwater.

If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or gmoreno@earthsys.net. The Conditionally Approved RP and Rejected RCR are attached for reference.

Sincerely,
EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

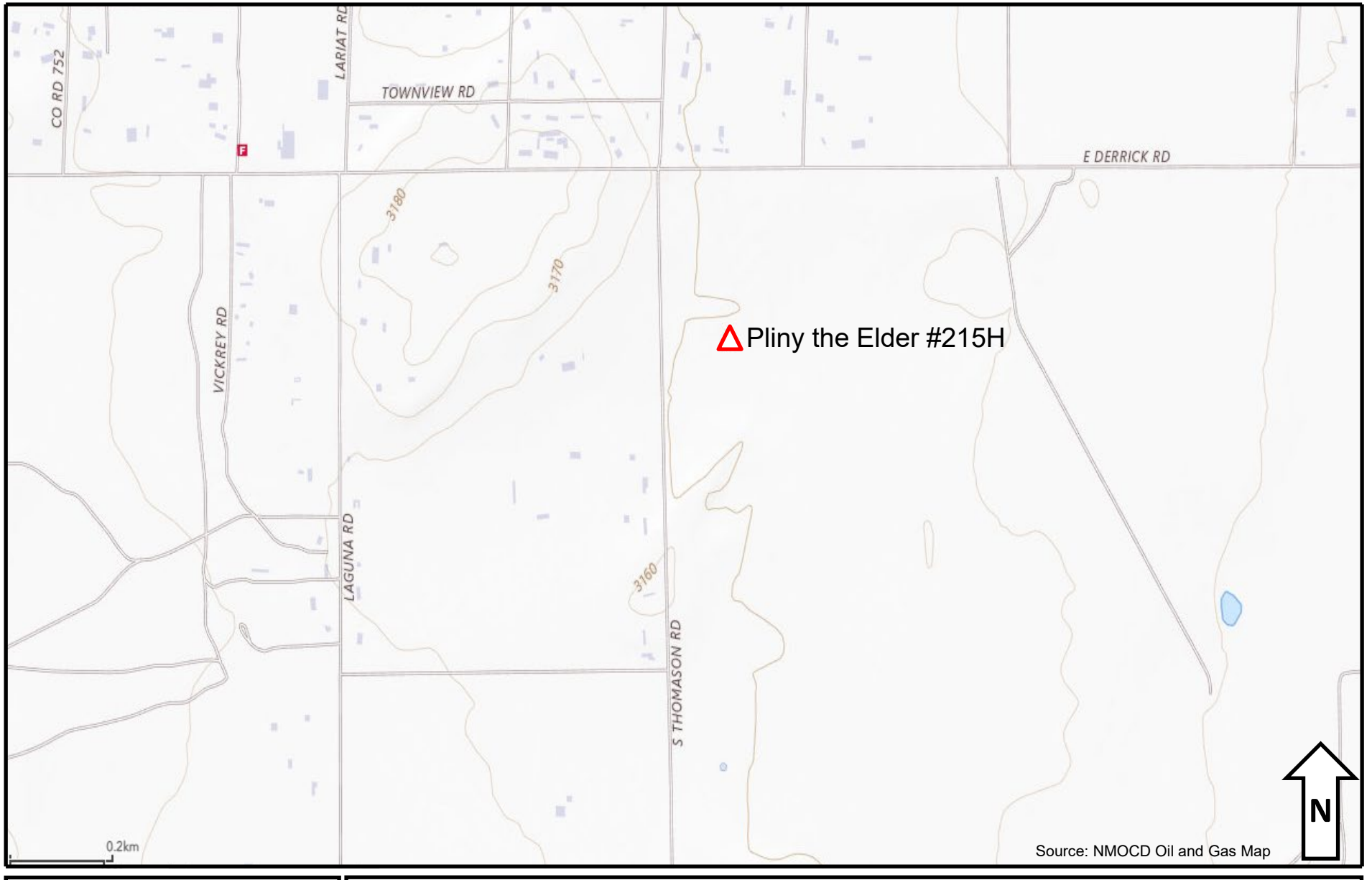
cc: Luke Kelly, Civitas Resources

Attachments:
- Figure 1 - Site Location
- Figure 1A - Ground Water
- Figure 1B - Karst Potential
- Figure 2 - Excavation Extent
- Figure 3 - Deferral Area
- NMOCD Email Correspondence
- Referenced Well Records

Pliny the Elder #215H - Deferral Request Report
Incident Number: nAPP2232633250
GPS: 32.338831, -104.20227
Date: August 6, 2024

Earth Systems
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Remediation Plan – Conditionally Approved
Remediation and Closure Report - Rejected

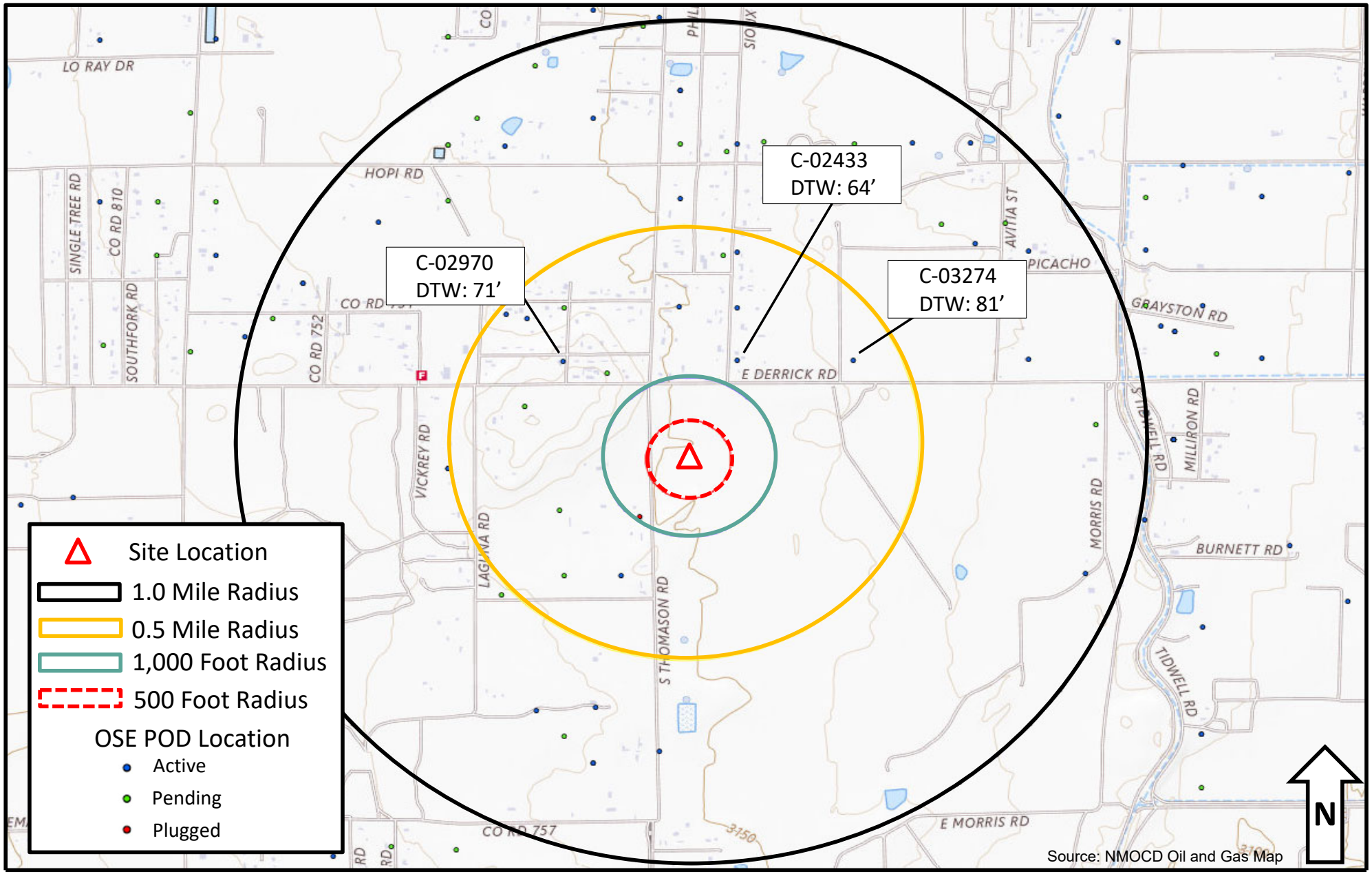


Earth Systems
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Figure 1 – Site Location

Civitas Resources – Pliny the Elder #215H
GPS: 32.338831, -104.20227
Lea County, New Mexico

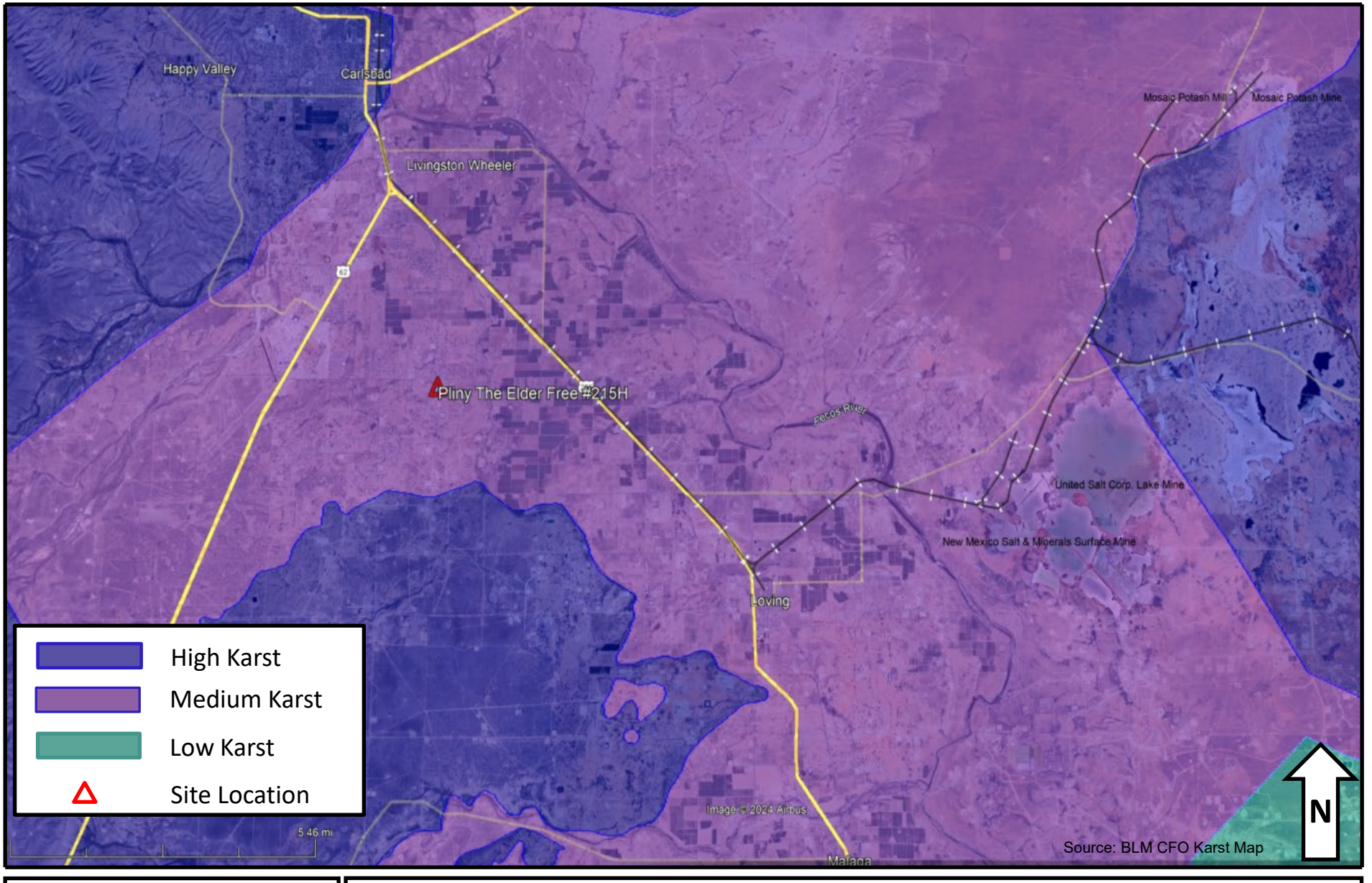
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Received by OCD: 8/9/2024 11:39:35 AM



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Response & Restoration

Figure 1A – Ground Water

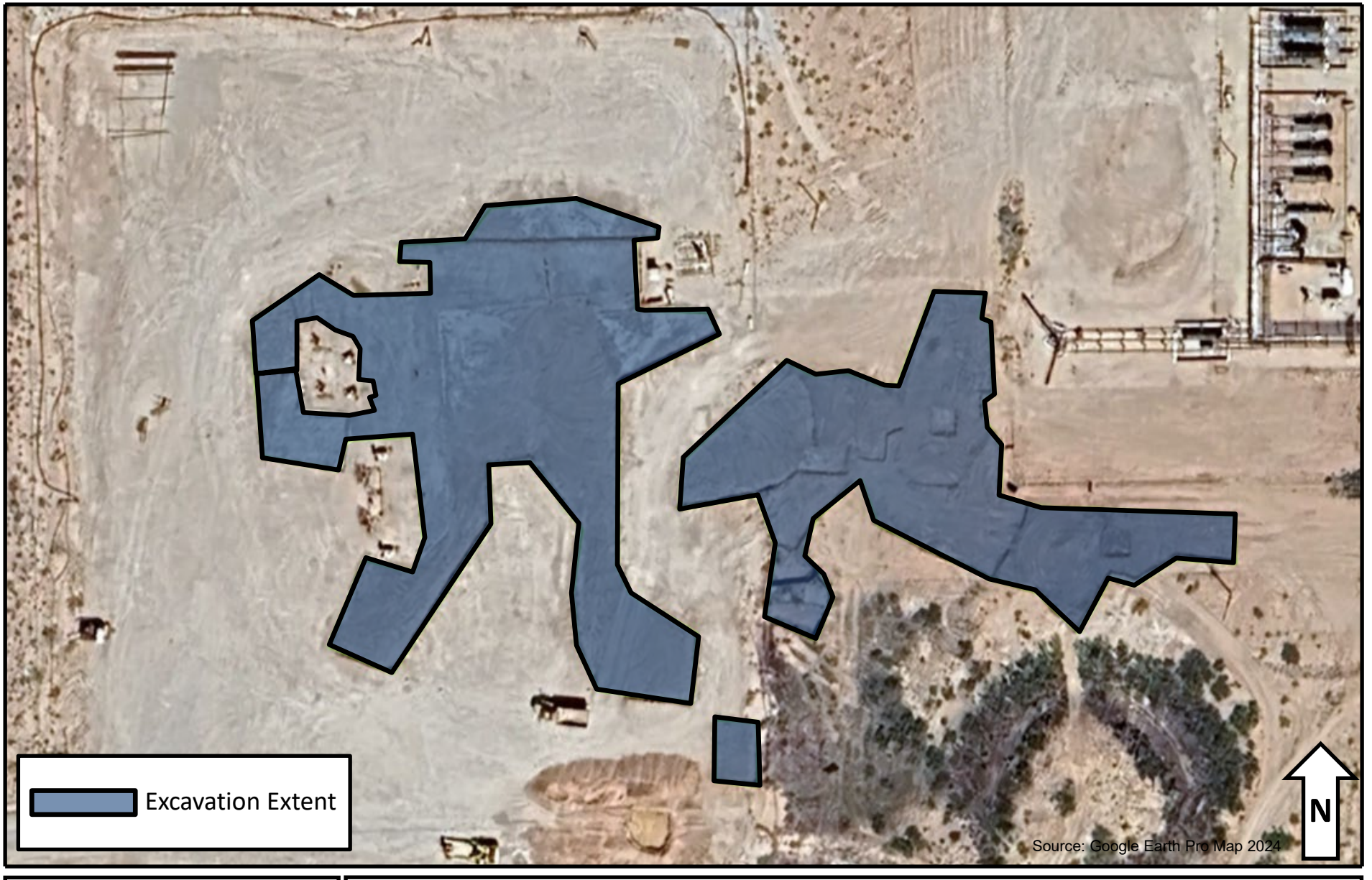
Civitas Resources – Pliny the Elder #215H
GPS: 32.338831, -104.20227
Lea County, New Mexico



Earth Systems
Response & Restoration

Figure 3 – Karst Potential

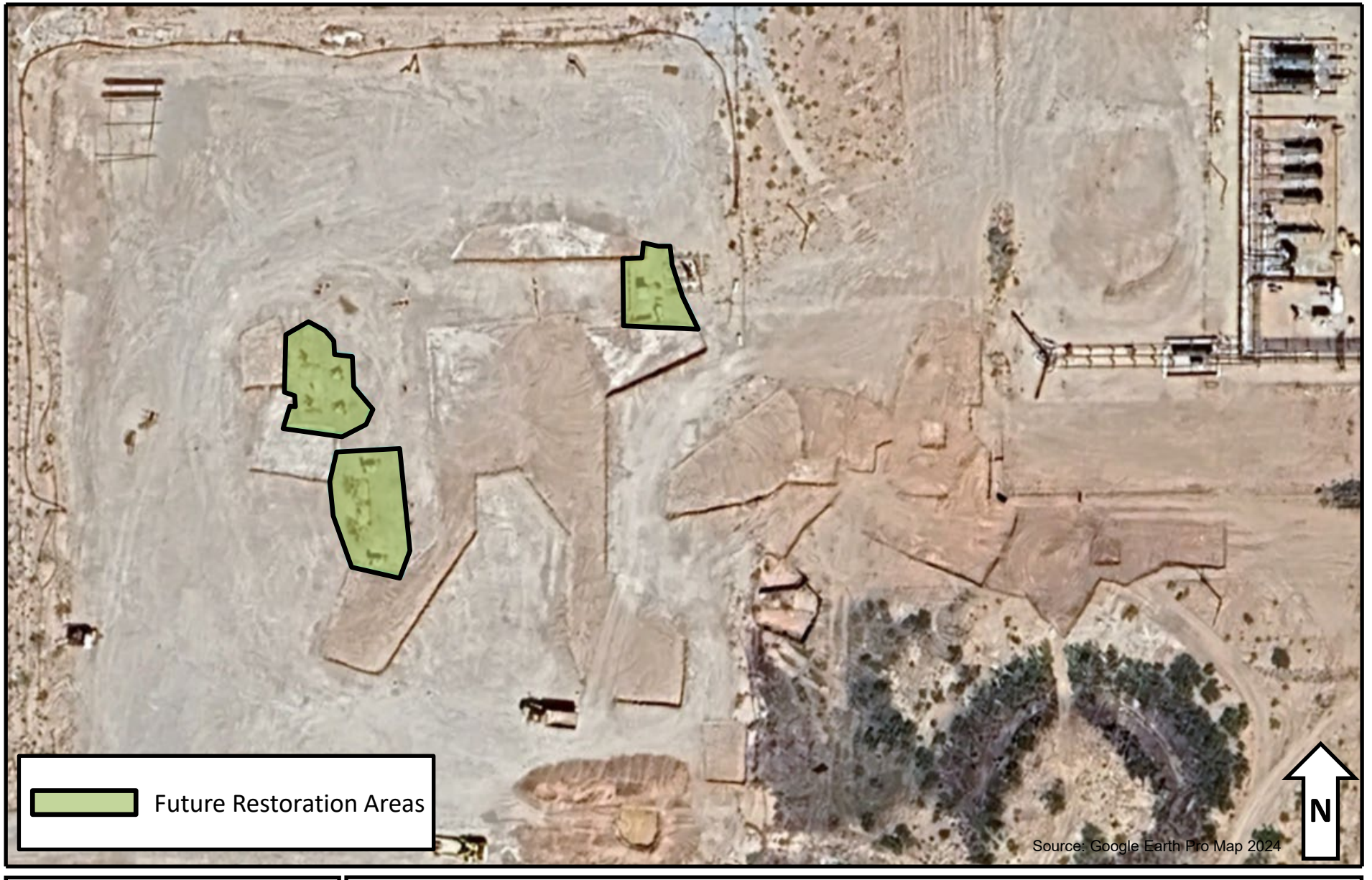
Civitas Resources – Pliny the Elder #215H
GPS: 32.338831, -104.20227
Lea County, New Mexico



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Figure 2 – Excavation Extent

Civitas Resources – Pliny the Elder #215H
GPS: 32.338831, -104.20227
Lea County, New Mexico



Earth Systems
Response & Restoration

Figure 3 – Deferral Area

Civitas Resources – Pliny the Elder #215H
GPS: 32.338831, -104.20227
Lea County, New Mexico

Re: [EXTERNAL] The Pliny the Elder #215H Extension Request- nAPP2232633250

Gilbert Moreno <gmoreno@earthsys.net>
Tue 8/6/2024 11:02 AM

To:Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc:Luke Kelly <lkelly@civiresources.com>;Kristopher Williams <kwilliams@earthsys.net>;Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Thanks Scott. I will get this added to our report prior to submitting.

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist
1910 Resource Ct | Carlsbad NM, 88220
O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net

Earth Systems
Response & Restoration

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Tuesday, August 6, 2024 9:33 AM
To: Gilbert Moreno <gmoreno@earthsys.net>
Cc: Luke Kelly <lkelly@civiresources.com>; Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] The Pliny the Elder #215H Extension Request- nAPP2232633250

Good Morning,
Your time extension request is approved. The due date has been updated to October 7, 2024 within the incident page.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott Rodgers ● Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Gilbert Moreno <gmoreno@earthsys.net>
Sent: Monday, August 5, 2024 5:01 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Luke Kelly <lkelly@civiresources.com>; Kristopher Williams <kwilliams@earthsys.net>
Subject: [EXTERNAL] The Pliny the Elder #215H Extension Request- nAPP2232633250

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Scott,

Earth Sytems R & R (ESRR) on behalf of Civitas Resources (Civitas) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the Pliny the Elder #215H (Site).

A produced water release was discovered on November 21, 2022, and was subsequently assigned Incident Number nAPP2232633250 at a former Tap Rock Operating location. From December 2022 through January 2023, a Tap Rock contracted third-party consultant completed initial release delineation activities followed by the completion of a Remediation Plan (RP), detailing all activities and proposed remedial actions. The RP was submitted and received by the NMOCD on February 21, 2023, and conditionally approved on June 22, 2023. During March 2023 through October 2023, the third-party consultant continued delineation activities and oversaw the excavation of approximately 10,860 cubic yards via mechanical equipment. A Remediation and Closure Report (RCR) was then completed, detailing all soil sampling and excavation activities. The RCR was submitted and received by the NMOCD on December 18, 2023, and rejected on March 19, 2024. Since the rejected RCR, Civitas has acquired this Site from Tap Rock Operating and the original third-party consultant was not retained.

Civitas requests an extension of the past due deadline for the release associated with Incident Number nAPP2232633250 in order to get back in compliance prior to submitting a subsequent corrective action report completed by ESRR.

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist
1910 Resource Ct | Carlsbad NM, 88220
O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net

Earth Systems
Response & Restoration

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Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

46770

Section 1. GENERAL INFORMATION

(A) Owner of well Rick Calderon Owner's Well No. _____
Street or Post Office Address 5326 Avitia
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2970 and is located in the:

a. ~~SE~~ SW ¼ SE ¼ ~~SW~~ SE ¼ _____ ¼ of Section 32 Township 22S Range 27E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348

Address 7317 Etcheverry Rd., Carlsbad, NM 88220

Drilling Began 6/12/03 Completed 6/13/03 Type tools Rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is 3120 ft. Total depth of well 138 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 71' ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
124	134	10	Congl:yel brn,gry,lmy,sndy	100

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	Sch 40 Pvc		+1	138	139	Cap	118	138

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

2003 JUL 16 AM 11:01 OIL CONSERVATION DIVISION

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY 268491

Date Received 7-16-03

Quad _____ FWL _____ FSL _____

File No. C-2920 Use Dom/Stk. Location No. 22.27.32 443

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Received by OCD: 8/9/2024 11:39:35 AM

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	4	4	Soil
4	8	4	Clay:dull rd,slty
8	12	4	Cobble+Gravel:gry,yel brn,tn,bff,lmy,loose
12	34	22	Clay:wht,off wht,smth-slty,sme caliche
34	42	8	Clay:pnk,vry stky
42	46	2	Clay:rd,sndy
46	56	10	Conglomerate:brn,gry,yel brn,tn,lmy
56	62	6	Clay:pnk,rd,slty
62	76	14	Clay:blu gry,sndy
76	124	48	Clay:rd,sndy,sme grvl
124	134	10	Conglomerate:yel brn,gry,lmy,sndy,lsly cmntd,fract
134	140	6	Clay:rd,slty

Section 7. REMARKS AND ADDITIONAL INFORMATION

Water tests at about 3500 PPM TDS. Does not taste salty.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

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February 21, 2023

New Mexico Energy, Minerals & Natural Resources
NMOCD District II

C/O Mike Bratcher, Robert Hamlet & Jennifer Nobui
811 S. First Street
Artesia, NM 88210

Tap Rock Operating, LLC
C/O Christian Combs & Bill Ramsey
523 Park Point Drive
Golden, CO 80401

Subject: Remediation Plan for Pliny the Elder Spill

API No. 30-015-45558
Incident ID No. NAPP2232633250
Legal: U/L M, Section 4, Township 23 South, Range 27 East
EDDY County, New Mexico

To Whom it May Concern:

Tap Rock Operating encountered a spill at the above-mentioned location on November 21st, 2022, caused by their completions third party (Breakwater Energy Partners). Select Energy Services, Inc (whom owns Breakwater Energy Partners) retained Larson & Associates to conduct a spill assessment for the Pliny the Elder #215H Release (hereafter referred to as the "Pliny") for the produced water release. On the following date, November 22nd 2022, ESS provided the immediate notification of the release to the New Mexico Oil Conservation Division (NMOCD), District II Office, via email at 9:11 AM. (Notification Attached). On behalf of Tap Rock, ESS also submitted the initial C141 Release Notification, along with the spill calculator used to determine the volume of the release (attached) on November 22nd 2022. The NMOCD accepted the C141 as record on November 22nd, 2022. The incident number assigned to the release is NAPP2232633250. (Notification correspondence is attached). This report provides a detailed description of the spill assessment, delineation, and remedial activities, which demonstrates that the upcoming remediation plan and closure criteria established in the 19.15.29.12 *New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018}* will be met. Tap Rock expects this closure to be completed as soon as practical and requests a May 1st, 2023 closure from the NMOCD.

Larson & Associates, Inc.
Environmental Consultants

February 14, 2023

VIA Email: Hbulter@selectenergy.com

Ms. Halie Butler
Sr. Corporate Compliance and Environmental Manager
Select Energy Services, Inc.
5721 NW 132nd Street
Oklahoma City, OK 73142

Re: Remediation Scope of Work – Pliney Elder Release, Eddy County, New Mexico

Dear Ms. Butler,
Larson & Associates, Inc. (LAI) presents this scope of work for addressing the release at the Pliney Elder (Site) in Eddy County, New Mexico. The geodetic position for the spill is North 32.338589° and West -104.201672°. Figure 1 presents a topographic and location map. Figure 2 presents an aerial map for the spill.

Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,140 feet above mean sea level (msl).
- The surface elevation gradually decreases to the east.
- Karst Data provided by the USGS describes the Site as "Medium Risk" potential.
- The primary soil is the Reagan Loam, nearly level, consisting of 82 inches of loam.
- The geology is Holocene to lower Pleistocene aged Piedmont alluvial deposits.
- The nearest groundwater well with data fitting the NMOCD requirements is located about 0.36 miles east from the Site, drilled on June 12, 2003, with a depth of groundwater being reported at 71 feet below ground surface (bgs).

Spill Delineation

In December 2022 and January 2023, LAI personnel used a stainless-steel hand auger and/or Geoprobe® Model 7822 direct push rig to collect vertical delineation soil samples at forty-three (43) locations (S-1 through S-43) and four (4) horizontal delineation soil samples in each cardinal direction (i.e., north, south, east, and west). Soil samples were collected to maximum depth of thirteen (13) feet bgs depending on chloride concentration and subsurface conditions. Eurofins – Xenco Laboratories (Xenco) in Midland, Texas, analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbon (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B, 8015M, and M300, respectively.

Benzene and BTEX were below the NMOCD remediation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively. All sample locations with the exception of S-20 and S-42 were fully delineated for TPH to 100 mg/Kg and chloride to 600 mg/Kg. Subsurface conditions due to hard caliche prevented completion of the delineation at S-20 and S-42 at a depth of thirteen (13) feet bgs and five (5) feet bgs, respectively. Table 1 presents the analytical data summary.

Ms. Halie Butler
February 14, 2023

Spill Remediation

The spill will be remediated to the NMOCD remediation standards listed in Table I 19.15.29 NMAC for groundwater occurring at a depth between 50 to 100 feet bgs. LAI proposes the following remedial actions:

- Excavate soil from an area measuring approximately 16,228 square feet encompassing sample locations S-6, S-8, S-10, S-12, S-13, S-14, and S-19 to a depth of approximately one (1) foot bgs.
- Excavate soil from an area measuring approximately 39,337 square feet encompassing sample locations S-5, S-9, S-15, S-24 through S-37, S-39, S-40, S-41, and S-43 to a depth of approximately two (2) feet bgs.
- Excavate soil from an area measuring approximately 4,171 square feet encompassing sample locations S-4 and S-11 to a depth of approximately three (3) feet bgs.
- Excavate soil from an area measuring approximately 4,028 square feet encompassing sample locations S-20 and S-42.
- During remediation activities, sample locations S-20 and S-42 will be fully delineated with a trackhoe to a depth of approximately fifteen (15) and ten (10) feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH, and chloride.
- Backfill the excavation on the pad with clean caliche and to one (1) foot bgs within the pasture. The remaining one (1) foot in the pasture will be backfiled with topsoil assuming achievement of OCD remediation levels.
- The excavation areas within the pasture will be seeded with BLM Mix #2.
- Prepare a report with photographs detailing the delineation and remediation at the Site for submittal to OCD District II.

Figure 3 presents the proposed excavation areas and depths.

Please contact Mark Larson or me at (432) 687-0901 if you have questions.

Respectfully,
LARSON & ASSOCIATES, INC.

Robert Nelson

Robert Nelson
Sr. Geologist
(c) – (432) 664-4804
rnelson@laenvironmental.com
Encl.

Tables

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-1	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24.6
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	728	<49.9	<49.9	728	27.8
S-2	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	155
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	187
S-3	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	277
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	299
S-4	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**1,650**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**4,210**
	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**2,100**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	483
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	591
	6	01/12/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	125
S-5	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	261
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**833**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,180**
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	39.9
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	29.3
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.3
S-6	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**1,070**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	270
S-7	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	36.5
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	34.3

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-8	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**947**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	467
S-9	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	361
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,190**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**368**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**70.1**
S-10	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**982**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**620**
	1	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	484
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	93.0
	5	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	14.9
	7	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	84.8
S-11	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**823**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**900**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**2,310**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	266
	5	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	12.2
	6	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	12.3
S-12	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**926**
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	52.5
S-13	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**978**

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	190
S-14	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**982**
	0.5-1	12/01/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	80.1
North	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	14.8
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	20.5
South	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.1
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	15.3
East	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	23.2
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	17.7
S-15	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,020**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**667**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	155
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	39.4
	10	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	13.2
S-16	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	113
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<5.05
S-17	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	143
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	323
S-18	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	42.7

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	47.4
S-19	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**1,040**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	434
S-20	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**807**
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,130**
	1	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	210	<49.9	**210**	**2,010**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,140**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,870**
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**757**
	13	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**721**
S-21	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.99
	0.5-1	12/08/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	482
S-22	0-0.5	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	347
S-23	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	412
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	13.8
S-24	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	135	<50.0	**135**	246
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	317	<49.9	**317**	**1,560**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	370
	6	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	23.0
S-25	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00404	<49.9	393	<49.9	**393**	**680**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	157	<49.9	**157**	**1,370**

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	149
	5	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	44.3
	10	01/12/2023	In-Situ	<0.00198	<0.00398	<49.9	<49.9	<49.9	<49.9	19.2
S-26	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**652**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	60.2	<50.0	60.2	**2,040**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	97.6
	5	01/12/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	10.5
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.62
S-27	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	253	135	**388**	324
	3	01/13/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	146
	5	01/13/2023	In-Situ	<0.00199	<0.00399	<49.8	<49.8	<49.8	<49.8	20.2
S-28	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	358	<49.9	**358**	**952**
	3	01/13/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	153
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	129
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	104
S-29	1	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	101	<50.0	**101**	**700**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	193
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	399
	7	01/13/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	270
S-30	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	156	<50.0	**156**	**1,320**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	127
	5	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	101
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	139

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-31	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	57.9	<49.9	57.9	**1,160**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	91.3
	5	01/13/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	43.2
	6.5	01/13/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	39.1
S-32	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	83.9	<49.9	83.9	**1,370**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	269
	5	01/12/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	64.6
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	106
S-33	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	54	<49.9	54	**1,270**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	523
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	52.6
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	35.8
S-34	1	01/17/2023	In-Situ	<0.00199	<0.00398	<50.0	181	<50.0	**181**	**1,370**
	3	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37.4
S-35	1	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	137	<50.0	**137**	**2,060**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	119
S-36	1	01/17/2023	In-Situ	<0.00200	<0.00401	<50.0	85.9	<50.0	85.9	402
	3	01/17/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	404
	5	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	391
S-37	1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**961**
	3	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	159

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	249
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	154
S-38	1	01/16/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	595
	3	01/16/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	113
	5	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	94.9
	10	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	64.8	<49.9	64.8	94.2
S-39	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	256	<49.9	**256**	**628**
	3	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	55.2
S-40	1	01/16/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,650**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	291
	5	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	214
	7	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	66.3
S-41	1	01/16/2023	In-Situ	<0.00200	<0.00399	<50.0	1,290	<50.0	**1,290**	**2,410**
	3	01/16/2023	In-Situ	<0.00201	0.0459	<50.0	<50.0	<50.0	<50.0	139
S-42	1	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	78.7	<49.9	78.7	**2,840**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,460**
	5	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**682**
S-43	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	168	<49.9	**168**	**1,110**
	3	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	350
West	0 - 1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	154

Table 1

Delineation Sample Analytical Data Summary

Breakwater - Pliney Elder

Eddy County, New Mexico

32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

From:	Natalie Gladden
To:	ocdonline, emnrd, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD; Nobui, Jennifer, EMNRD
Cc:	Bill Ramsey; Christian Combs; Dakoatah Montanez
Subject:	[EXTERNAL] TAP ROCK - SPILL NOTIFICATION - PLINY THE ELDER #215H
Date:	Tuesday, November 22, 2022 9:10:58 AM
Attachments:	image001.png
Importance:	High

[EXTERNAL] This email originated from outside your organization. Do not trust links or attachments.

All,

On 11/21/2022 around 6:50pm, the frac tank that was being used during the completion phase overflowed causing the release. Please use this email as the official spill notification. The C141 will be uploaded shortly.

Details:

Pliny the Elder #215h
DOR: 11/21/22
Released: 612.42bbls of produced water
Recovered: 0bbls

If you have any questions or concerns, please let me know.

Sincerely,

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

ESS

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	NAPP2232633250
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **TAP ROCK OPERATING**	OGRID **372043**
Contact Name **CHRISTIAN COMBS**	Contact Telephone **720-360-4028**
Contact email **CCOMBS@TAPRK.COM**	Incident # *(assigned by OCD)* ***NAPP2232633250***
Contact mailing address	

Location of Release Source

Latitude **32.338831** Longitude **-104.202270**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **PLINY THE ELDER #215H**	Site Type **PRODUCTION**
Date Release Discovered **11/21/2022**	API# *(if applicable)* ***30-015-45558***

Unit Letter	Section	Township	Range	County
D	**4**	**23S**	**27E**	**EDDY**

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) **612.42**	Volume Recovered (bbls) **0**
	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
FRAC TANK RAN OVER DURING COMPLETION OPERATIONS. FLUID RELEASED ONTO PAD AND PASTURE AREA.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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? **VOLUME OF RELEASE**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
EMAIL OF SPILL NOTIFICAITON WAS SENT BY NATALIE GLADDEN/ESS TO OCD, BRATCHER, NOBUI, HAMPLET AND HARIMON ON 11/22/22 AT 9:11AM.

Initial Response

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

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

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

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

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

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY**

Signature: Natalie Gladden Date: 11/22/22

email: **natalie@energystaffingllc.com** Telephone: **(575) 390-6397**

OCD Only

Received by: Jocelyn Harimon Date: 11/22/2022

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	267.29	60.45	0.415	6705.4374	191.24	Fine Sand
Medium Sand	0.25	10	10	0.083	8.3	0.37	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravely Sand	0.26	10	10	0.083	8.3	0.38	Gravely Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	275.55	258.28	0.166	11814.063	421.18	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	*2*	*3*	*4*	*5*	*6*
0.083	**0.166**	**0.250**	**0.332**	**0.415**	**0.500**
7	*8*	*9*	*10*	*11*	*12*
0.581	**0.664**	**0.750**	**0.830**	**0.913**	**1.000**

NOTE: This is an **estimate** tool designed for quick field estimates of whether a C-141 should be requred *(I.e. a release is estimated to be greater than or less than 5 barrel volumes)*

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

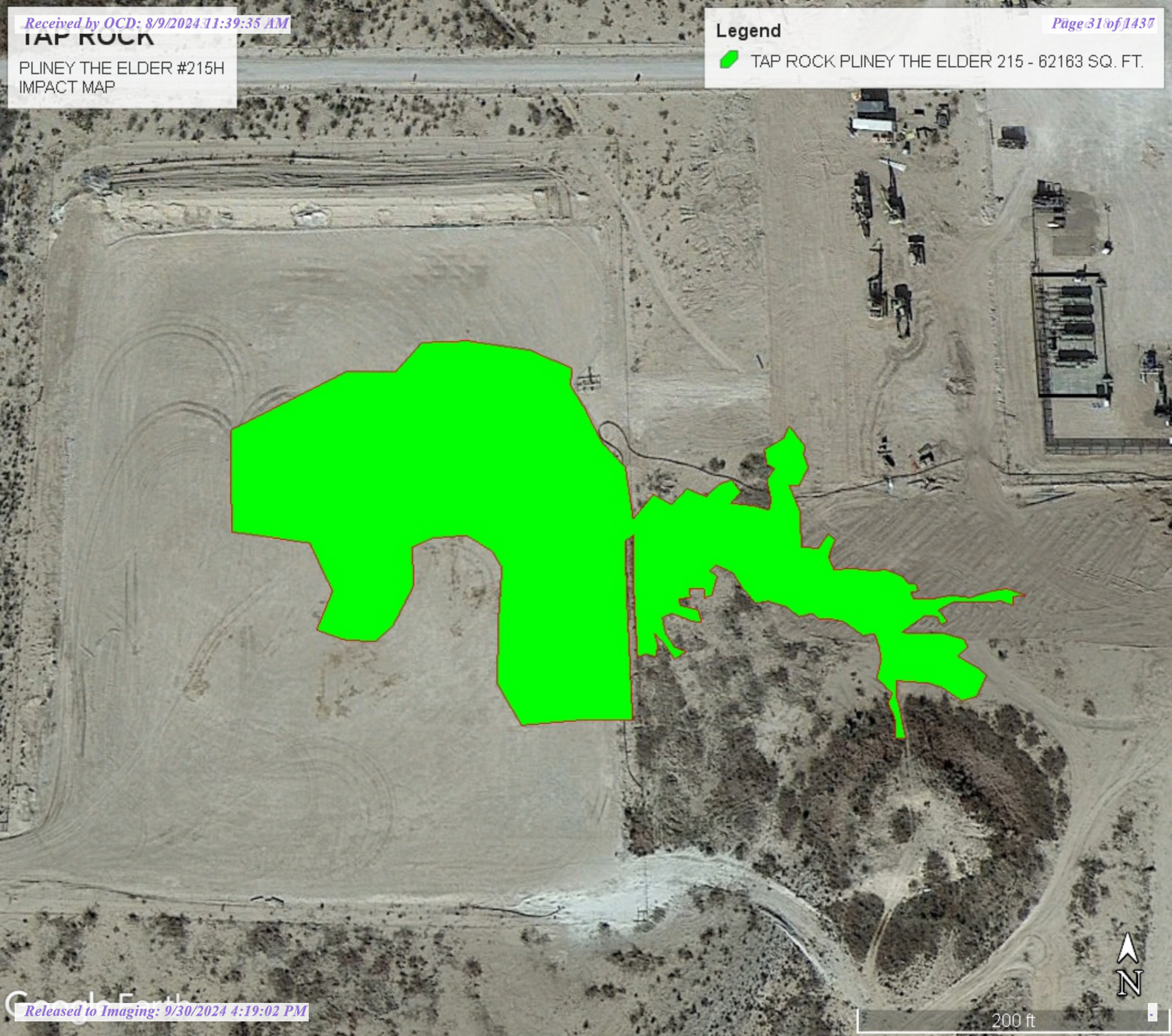
Figures

TAP ROCK

PLINEY THE ELDER #215H
IMPACT MAP

Legend

TAP ROCK PLINEY THE ELDER 215 - 62163 SQ. FT.



Received by OCD: 8/9/2024 11:39:35 AM

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

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Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Eddy Area, New Mexico

Rc—Reagan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5l
Elevation: 1,100 to 5,300 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 240 days

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Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 82 inches: loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent

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Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Reeves

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

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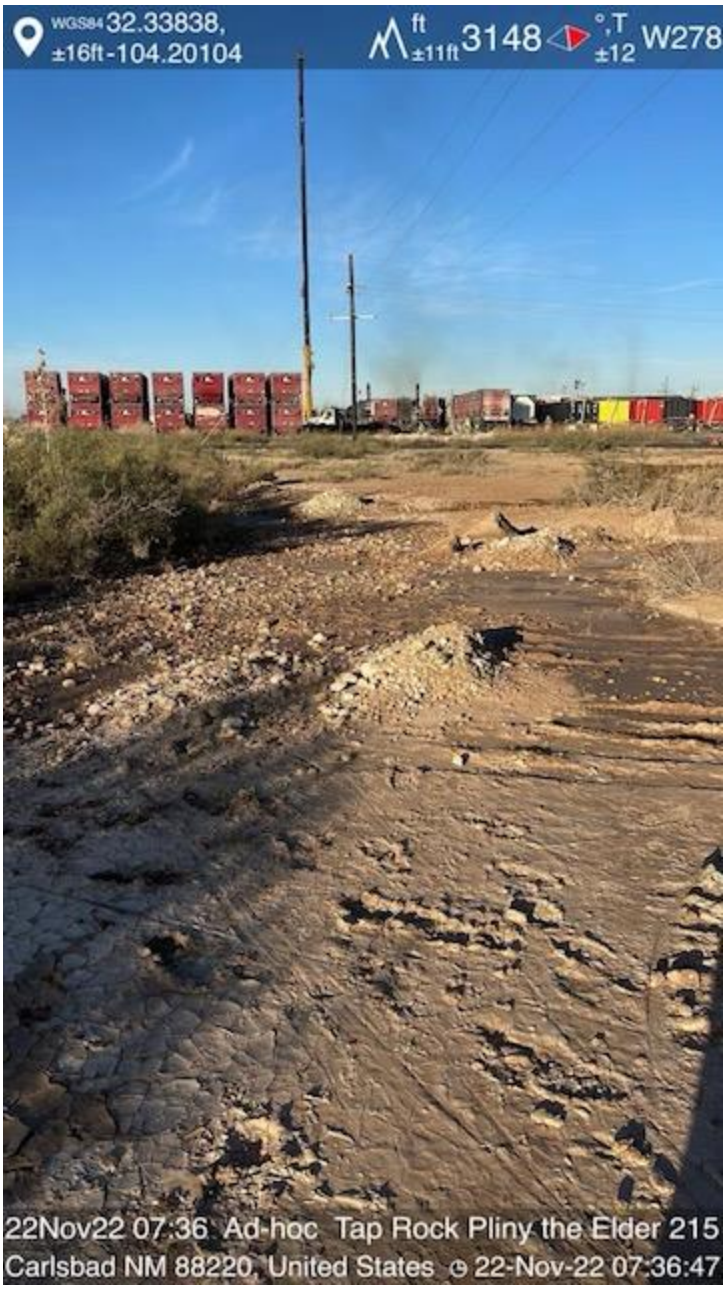

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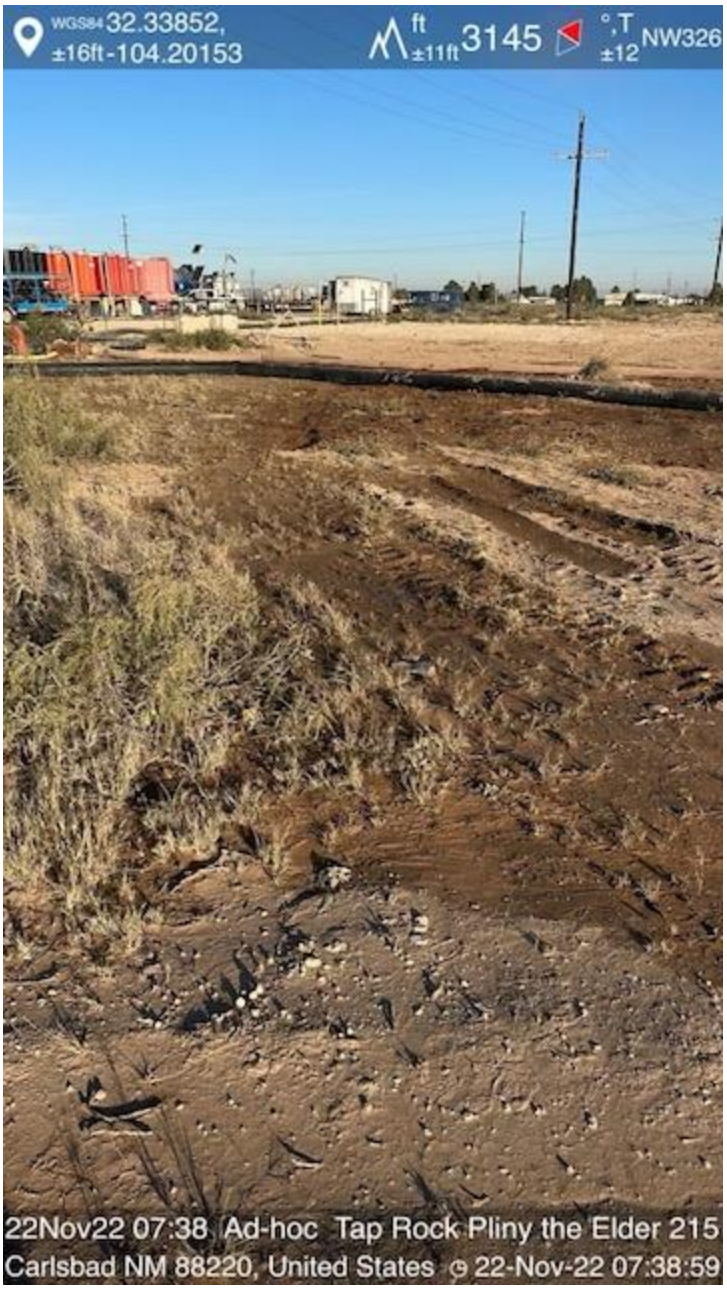

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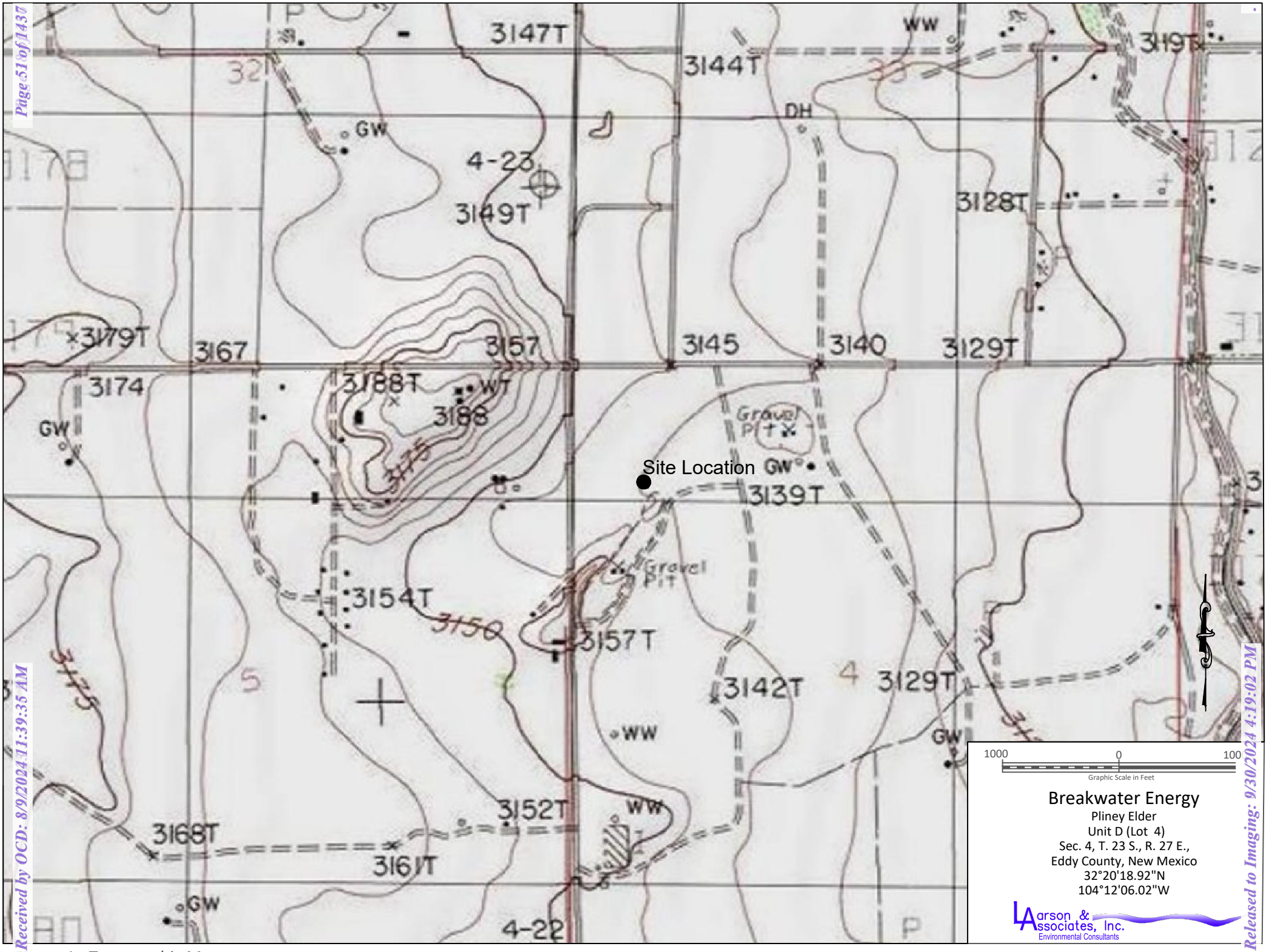

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Figure 1 - Topographic Map

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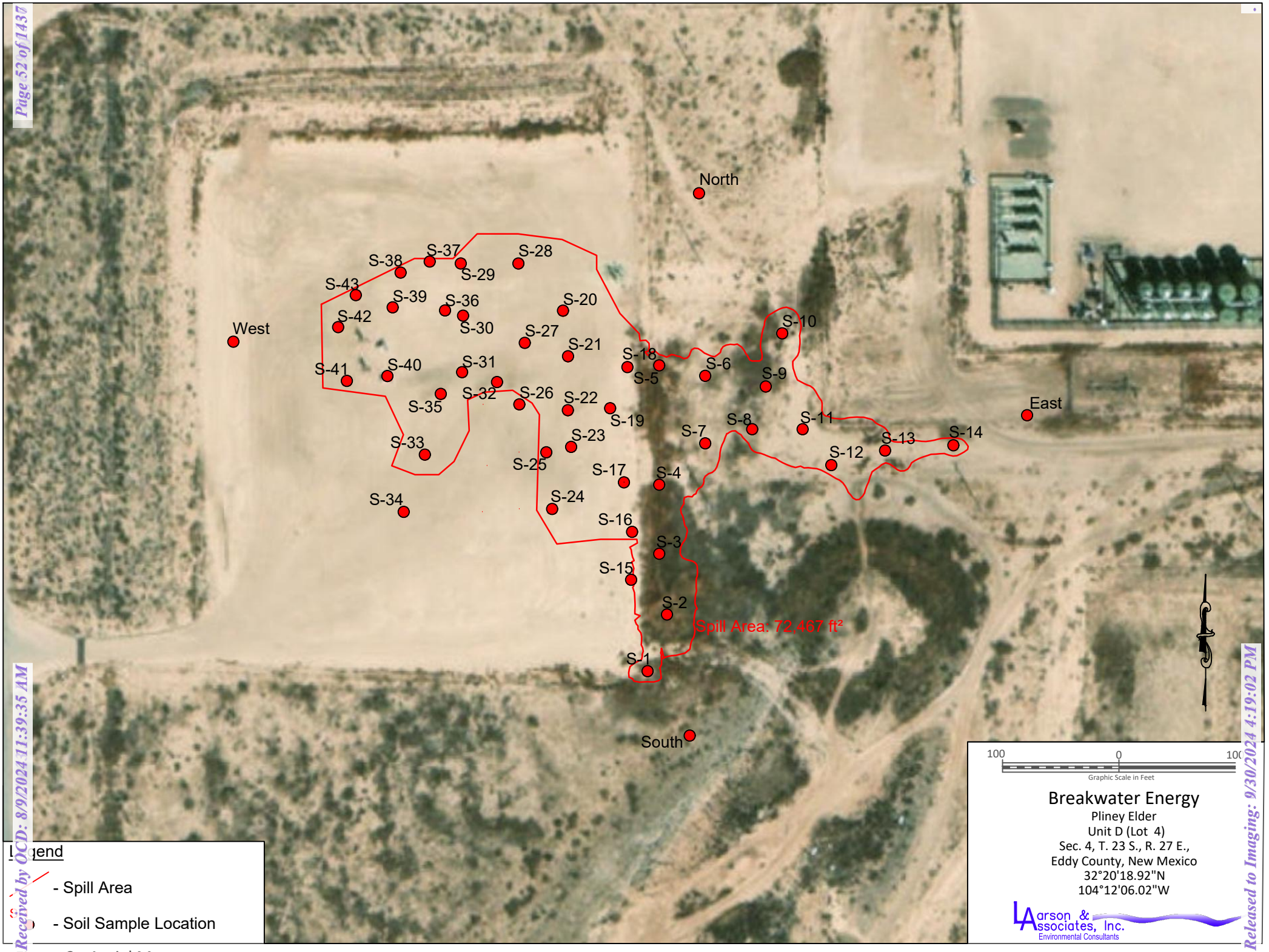


Figure 2 - Aerial Map

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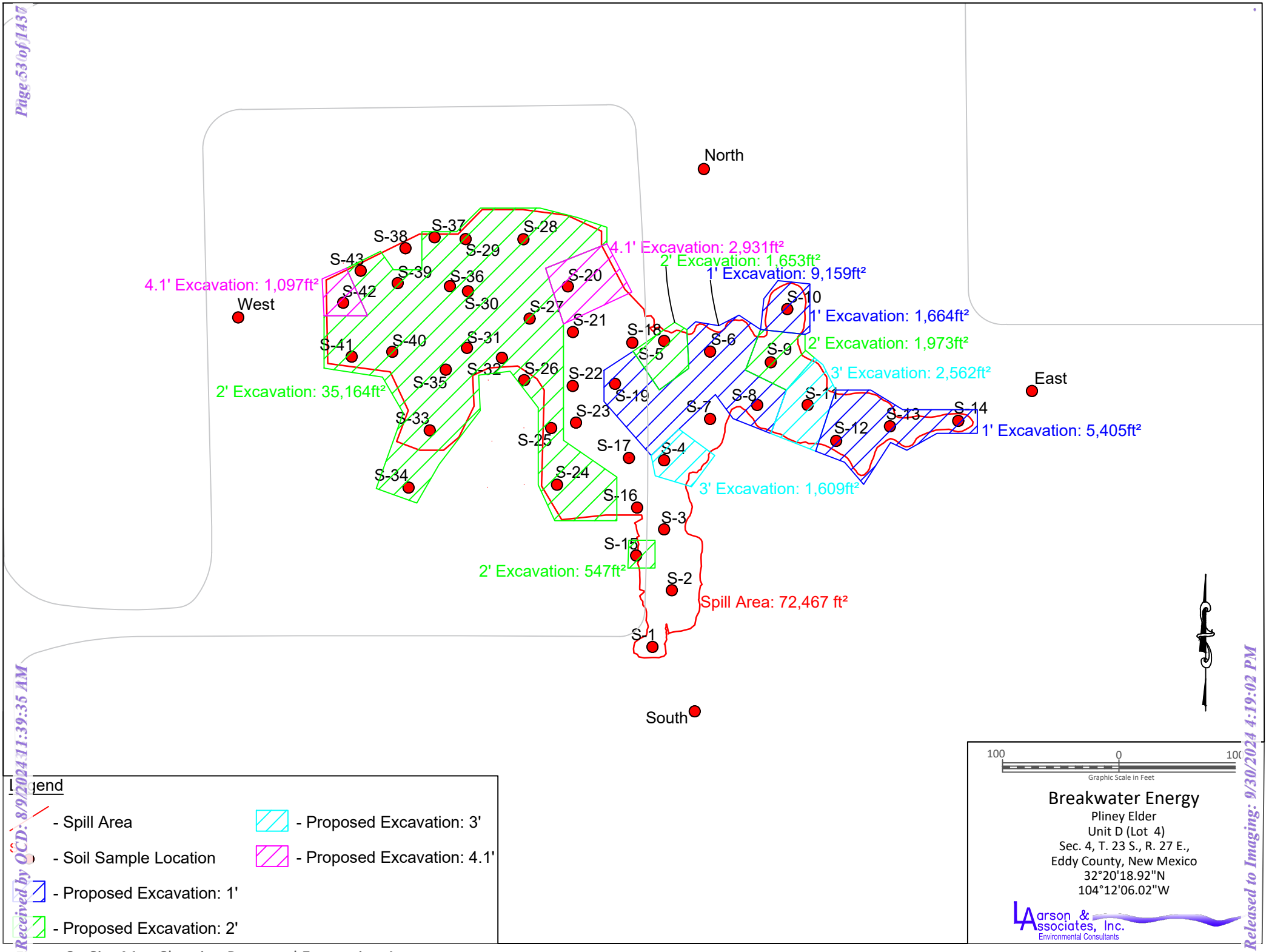


Figure 3 - Site Map Showing Proposed Excavation Areas

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Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-1	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24.6
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	728	<49.9	<49.9	728	27.8
S-2	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	155
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	187
S-3	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	277
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	299
S-4	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**1,650**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**4,210**
	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**2,100**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	483
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	591
	6	01/12/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	125
S-5	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	261
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**833**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,180**
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	39.9
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	29.3
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.3
S-6	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**1,070**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	270
S-7	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	36.5
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	34.3

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-8	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**947**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	467
S-9	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	361
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,190**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**368**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**70.1**
S-10	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**982**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**620**
	1	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	484
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	93.0
	5	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	14.9
	7	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	84.8
S-11	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**823**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**900**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**2,310**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	266
	5	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	12.2
	6	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	12.3
S-12	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**926**
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	52.5
S-13	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**978**

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	190
S-14	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**982**
	0.5-1	12/01/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	80.1
North	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	14.8
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	20.5
South	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.1
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	15.3
East	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	23.2
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	17.7
S-15	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,020**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**667**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	155
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	39.4
	10	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	13.2
S-16	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	113
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<5.05
S-17	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	143
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	323
S-18	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	42.7

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	47.4
S-19	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**1,040**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	434
S-20	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**807**
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,130**
	1	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	210	<49.9	**210**	**2,010**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,140**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,870**
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**757**
	13	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**721**
S-21	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.99
	0.5-1	12/08/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	482
S-22	0-0.5	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	347
S-23	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	412
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	13.8
S-24	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	135	<50.0	**135**	246
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	317	<49.9	**317**	**1,560**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	370
	6	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	23.0
S-25	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00404	<49.9	393	<49.9	**393**	**680**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	157	<49.9	**157**	**1,370**

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	149
	5	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	44.3
	10	01/12/2023	In-Situ	<0.00198	<0.00398	<49.9	<49.9	<49.9	<49.9	19.2
S-26	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**652**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	60.2	<50.0	60.2	**2,040**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	97.6
	5	01/12/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	10.5
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.62
S-27	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	253	135	**388**	324
	3	01/13/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	146
	5	01/13/2023	In-Situ	<0.00199	<0.00399	<49.8	<49.8	<49.8	<49.8	20.2
S-28	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	358	<49.9	**358**	**952**
	3	01/13/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	153
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	129
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	104
S-29	1	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	101	<50.0	**101**	**700**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	193
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	399
	7	01/13/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	270
S-30	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	156	<50.0	**156**	**1,320**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	127
	5	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	101
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	139

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-31	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	57.9	<49.9	57.9	**1,160**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	91.3
	5	01/13/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	43.2
	6.5	01/13/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	39.1
S-32	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	83.9	<49.9	83.9	**1,370**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	269
	5	01/12/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	64.6
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	106
S-33	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	54	<49.9	54	**1,270**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	523
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	52.6
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	35.8
S-34	1	01/17/2023	In-Situ	<0.00199	<0.00398	<50.0	181	<50.0	**181**	**1,370**
	3	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37.4
S-35	1	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	137	<50.0	**137**	**2,060**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	119
S-36	1	01/17/2023	In-Situ	<0.00200	<0.00401	<50.0	85.9	<50.0	85.9	402
	3	01/17/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	404
	5	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	391
S-37	1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**961**
	3	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	159

Table 1
Delineation Sample Analytical Data Summary
Breakwater - Pliney Elder
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	249
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	154
S-38	1	01/16/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	595
	3	01/16/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	113
	5	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	94.9
	10	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	64.8	<49.9	64.8	94.2
S-39	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	256	<49.9	**256**	**628**
	3	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	55.2
S-40	1	01/16/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,650**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	291
	5	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	214
	7	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	66.3
S-41	1	01/16/2023	In-Situ	<0.00200	<0.00399	<50.0	1,290	<50.0	**1,290**	**2,410**
	3	01/16/2023	In-Situ	<0.00201	0.0459	<50.0	<50.0	<50.0	<50.0	139
S-42	1	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	78.7	<49.9	78.7	**2,840**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,460**
	5	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**682**
S-43	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	168	<49.9	**168**	**1,110**
	3	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	350
West	0 - 1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	154

Table 1

Delineation Sample Analytical Data Summary

Breakwater - Pliney Elder

Eddy County, New Mexico

32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

From: Bill Ramsey
To: ocdonline, emnrd, EMNRD; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: Christian Combs; Halie Butler
Subject: Tap Rock: PLINY THE ELDER #215H - Extension Request
Date: Friday, February 17, 2023 2:36:00 PM
Attachments: image001.png

All,

Tap Rock would like to request an extension on the following release:

Location: Pliny the Elder #215H
DOR: 11/21/22
Spill ID: NAPP2232633250
API# 30-015-45558

A remediation plan is being finalized between the completions company handling the cleanup and Tap Rock. Tap Rock requests a 10-day extension to allow proper internal review/plan of action forward for both parties before submission to the NMOCD for determination.

If you have any questions or concerns, please let me know.

Thanks,

Bill Ramsey
Environmental Specialist
Cell: (720) 238-2787



State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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?	Unkown (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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: Bill Ramsey Title: Environmental Specialist

Signature: Date: 2/21/2023

email: bramsey@taprk.com Telephone: 720-238-2787

OCD Only

Received by: Jocelyn Harimon Date: 02/21/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- [ ] 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: Bill Ramsey Title: Environmental Specialist

Signature: Date: 2/21/2022

email: bramsey@taprk.com Telephone: 720-238-2787

OCD Only

Received by: Jocelyn Harimon Date: 02/21/2023

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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- [ ] 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: Bill Ramsey Title: Environmental Specialist

Signature: Date: 2/21/2022

email: bramsey@taprk.com Telephone: 720-238-2787

OCD Only

Received by: Jocelyn Harimon Date: 02/21/2023

- [ ] Approved
- [X] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Robert Hamlet Date: 6/22/2023

Received by OCD: 8/9/2024 11:39:35 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/15/2022 3:13:33 PM

JOB DESCRIPTION

Breakwater-Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-22230-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

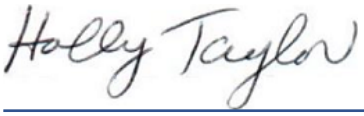
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Eurofins Midland

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
12/15/2022 3:13:33 PM

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

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Laboratory Job ID: 880-22230-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Job ID: 880-22230-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22230-1

Receipt
The samples were received on 12/2/2022 2:53 PM. 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 time was 3.6°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41667 and 880-41753 and analytical batch 880-41835 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 sample was outside control limits: (LCSD 880-41667/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41667 and 880-41753 and analytical batch 880-41835 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5, 0.5-1 (880-22230-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22230-A-21-C 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.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: North 0.5-1 (880-22230-30), West 0.5-1 (880-22230-34) and (MB 880-41296/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41279 and analytical batch 880-41411 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41279/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1, 0.5-1 (880-22230-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-3, 0-0.5 (880-22230-5), S-3, 0.5-1 (880-22230-6), S-4, 0-0.5 (880-22230-7) and S-4, 0.5-1 (880-22230-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-5, 0.5-1 (880-22230-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-6, 0-0.5 (880-22230-11), S-6, 0.5-1 (880-22230-12) and S-7, 0-0.5 (880-22230-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Job ID: 880-22230-1 (Continued)

Laboratory: Eurofins Midland (Continued)

not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-8, 0.5-1 (880-22230-16) and S-9, 0-0.5 (880-22230-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-10, 0-0.5 (880-22230-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41279 and analytical batch 880-41411 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40976 and analytical batch 880-41271 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_ORGFM_28D: The laboratory control sample (LCS) associated with preparation batch 880-40975 and 880-40975 and analytical batch 880-41275 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-1, 0-0.5

Date Collected: 12/01/22 11:41
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-1

Matrix: Solid

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		12/12/22 15:46	12/14/22 19:38	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:38	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:38	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		12/12/22 15:46	12/14/22 19:38	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:38	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/12/22 15:46	12/14/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/12/22 15:46*	*12/14/22 19:38*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/12/22 15:46*	*12/14/22 19:38*	*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			12/15/22 12:12	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			12/12/22 10:49	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 F2	50.0		mg/Kg		12/07/22 12:05	12/09/22 21:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 21:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/07/22 12:05*	*12/09/22 21:54*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*12/07/22 12:05*	*12/09/22 21:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.6**	*+	4.96		mg/Kg			12/09/22 16:17	1

Client Sample ID: S-1, 0.5-1

Date Collected: 12/01/22 11:42
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-2

Matrix: Solid

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		12/12/22 15:46	12/14/22 19:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 19:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 19:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/12/22 15:46*	*12/14/22 19:58*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/12/22 15:46*	*12/14/22 19:58*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-1, 0.5-1

Date Collected: 12/01/22 11:42
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-2
Matrix: Solid

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			12/15/22 12:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**728**		49.9		mg/Kg			12/12/22 10:49	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	**728**		49.9		mg/Kg		12/07/22 12:05	12/09/22 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/09/22 22:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/09/22 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*12/07/22 12:05*	*12/09/22 22:59*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/09/22 22:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.8**	***+**	4.97		mg/Kg			12/09/22 16:23	1

Client Sample ID: S-2, 0-0.5

Date Collected: 12/01/22 11:44
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-3
Matrix: Solid

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		12/12/22 15:46	12/14/22 20:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 20:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 20:19	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/12/22 15:46	12/14/22 20:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 20:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/22 15:46	12/14/22 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/12/22 15:46*	*12/14/22 20:19*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/12/22 15:46*	*12/14/22 20:19*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/09/22 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/09/22 23:20	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-2, 0-0.5

Date Collected: 12/01/22 11:44
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-3
Matrix: Solid

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		12/07/22 12:05	12/09/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/07/22 12:05*	*12/09/22 23:20*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*12/07/22 12:05*	*12/09/22 23:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**	*+	5.02		mg/Kg			12/09/22 16:29	1

Client Sample ID: S-2, 0.5-1

Date Collected: 12/01/22 11:45
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-4
Matrix: Solid

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		12/12/22 15:46	12/14/22 20:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 20:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 20:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 20:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 20:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*12/12/22 15:46*	*12/14/22 20:39*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/12/22 15:46*	*12/14/22 20:39*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/09/22 23:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 23:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*12/07/22 12:05*	*12/09/22 23:42*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*12/07/22 12:05*	*12/09/22 23:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**	*+	5.03		mg/Kg			12/09/22 16:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-3, 0-0.5

Date Collected: 12/01/22 11:48
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-5

Matrix: Solid

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		12/12/22 15:46	12/14/22 21:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 21:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:00*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:00*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 00:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*12/07/22 12:05*	*12/10/22 00:03*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 00:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**277**	***+**	5.01		mg/Kg			12/09/22 16:41	1

Client Sample ID: S-3, 0.5-1

Date Collected: 12/01/22 11:49
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-6

Matrix: Solid

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		12/12/22 15:46	12/14/22 21:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:21	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 21:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 21:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:21*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:21*	*1*

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-3, 0.5-1

Date Collected: 12/01/22 11:49
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-6

Matrix: Solid

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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 00:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 00:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*12/07/22 12:05*	*12/10/22 00:25*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 00:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**299**	***+**	5.00		mg/Kg			12/09/22 17:00	1

Client Sample ID: S-4, 0-0.5

Date Collected: 12/01/22 11:50
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-7

Matrix: Solid

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		12/12/22 15:46	12/14/22 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 21:41	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/14/22 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 21:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/14/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/12/22 15:46*	*12/14/22 21:41*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 00:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/07/22 12:05	12/10/22 00:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-4, 0-0.5

Lab Sample ID: 880-22230-7
Matrix: Solid
Date Collected: 12/01/22 11:50
Date Received: 12/02/22 14:53

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		12/07/22 12:05	12/10/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*12/07/22 12:05*	*12/10/22 00:46*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 00:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**	***+**	24.9		mg/Kg			12/09/22 17:06	5

Client Sample ID: S-4, 0.5-1

Lab Sample ID: 880-22230-8
Matrix: Solid
Date Collected: 12/01/22 11:51
Date Received: 12/02/22 14:53

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		12/12/22 15:46	12/14/22 22:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 22:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 22:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 22:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/14/22 22:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/14/22 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/12/22 15:46*	*12/14/22 22:02*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*12/12/22 15:46*	*12/14/22 22:02*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 01:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 01:08*	*1*
o-Terphenyl (Surr)	*143*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 01:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4210**	***+**	24.8		mg/Kg			12/09/22 17:25	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-5, 0-0.5

Date Collected: 12/01/22 11:53
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-9

Matrix: Solid

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		12/12/22 15:46	12/14/22 22:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 22:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 22:22	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/14/22 22:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 22:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/14/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/12/22 15:46*	*12/14/22 22:22*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/12/22 15:46*	*12/14/22 22:22*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 01:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*12/07/22 12:05*	*12/10/22 01:29*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*12/07/22 12:05*	*12/10/22 01:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**	*+	5.04		mg/Kg			12/09/22 17:31	1

Client Sample ID: S-5, 0.5-1

Date Collected: 12/01/22 11:54
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-10

Matrix: Solid

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		12/12/22 15:46	12/14/22 22:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 22:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 22:42	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/12/22 15:46	12/14/22 22:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/22 15:46	12/14/22 22:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/22 15:46	12/14/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*12/12/22 15:46*	*12/14/22 22:42*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/12/22 15:46*	*12/14/22 22:42*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-5, 0.5-1

Date Collected: 12/01/22 11:54
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-10
Matrix: Solid

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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 01:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 01:51*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*12/07/22 12:05*	*12/10/22 01:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**833**	***+**	4.97		mg/Kg			12/09/22 17:37	1

Client Sample ID: S-6, 0-0.5

Date Collected: 12/01/22 11:57
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-11
Matrix: Solid

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		12/12/22 15:46	12/15/22 00:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/22 15:46	12/15/22 00:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/22 15:46	12/15/22 00:32	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		12/12/22 15:46	12/15/22 00:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/22 15:46	12/15/22 00:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/12/22 15:46	12/15/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/12/22 15:46*	*12/15/22 00:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/12/22 15:46*	*12/15/22 00:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 02:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-6, 0-0.5

Date Collected: 12/01/22 11:57
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-11
Matrix: Solid

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		12/07/22 12:05	12/10/22 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*12/07/22 12:05*	*12/10/22 02:34*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 02:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**	***+**	4.96		mg/Kg			12/09/22 17:43	1

Client Sample ID: S-6, 0.5-1

Date Collected: 12/01/22 11:59
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-12
Matrix: Solid

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		12/12/22 15:46	12/15/22 00:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 00:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 00:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 00:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 00:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/12/22 15:46*	*12/15/22 00:53*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/12/22 15:46*	*12/15/22 00:53*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 02:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 02:56*	*1*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 02:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**	***+**	5.00		mg/Kg			12/09/22 17:49	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-7, 0-0.5

Date Collected: 12/01/22 12:03
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-13

Matrix: Solid

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		12/12/22 15:46	12/15/22 01:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 01:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 01:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 01:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 01:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:13*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:13*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 03:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 03:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 03:17*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 03:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**	***+**	4.99		mg/Kg			12/09/22 17:55	1

Client Sample ID: S-7, 0.5-1

Date Collected: 12/01/22 12:04
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-14

Matrix: Solid

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		12/12/22 15:46	12/15/22 01:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:34	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/12/22 15:46	12/15/22 01:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/22 15:46	12/15/22 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:34*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-7, 0.5-1

Date Collected: 12/01/22 12:04
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-14
Matrix: Solid

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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 03:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*12/07/22 12:05*	*12/10/22 03:39*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/07/22 12:05*	*12/10/22 03:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.3**	*+	4.98		mg/Kg			12/09/22 18:02	1

Client Sample ID: S-8, 0-0.5

Date Collected: 12/01/22 12:07
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-15
Matrix: Solid

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		12/12/22 15:46	12/15/22 01:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:54	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/15/22 01:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 01:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/15/22 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:54*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/12/22 15:46*	*12/15/22 01:54*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 04:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 04:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-8, 0-0.5

Date Collected: 12/01/22 12:07
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-15
Matrix: Solid

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		12/07/22 12:05	12/10/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*12/07/22 12:05*	*12/10/22 04:00*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/07/22 12:05*	*12/10/22 04:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**947**	**F1**	4.98		mg/Kg			12/08/22 03:14	1

Client Sample ID: S-8, 0.5-1

Date Collected: 12/01/22 12:09
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-16
Matrix: Solid

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		12/12/22 15:46	12/15/22 02:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 02:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:15*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:15*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 04:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 04:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*12/07/22 12:05*	*12/10/22 04:22*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 04:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**467**		4.99		mg/Kg			12/08/22 03:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-9, 0-0.5

Date Collected: 12/01/22 12:13
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-17
Matrix: Solid

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		12/12/22 15:46	12/15/22 02:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 02:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 02:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:35*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:35*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 04:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 04:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 04:44*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 04:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**361**		4.97		mg/Kg			12/08/22 03:47	1

Client Sample ID: S-9, 0.5-1

Date Collected: 12/01/22 12:15
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-18
Matrix: Solid

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		12/12/22 15:46	12/15/22 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 02:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 02:55	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/12/22 15:46	12/15/22 02:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 02:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/22 15:46	12/15/22 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:55*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/12/22 15:46*	*12/15/22 02:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-9, 0.5-1

Date Collected: 12/01/22 12:15
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-18
Matrix: Solid

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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 05:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 05:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*12/07/22 12:05*	*12/10/22 05:05*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*12/07/22 12:05*	*12/10/22 05:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		5.02		mg/Kg			12/08/22 03:55	1

Client Sample ID: S-10, 0-0.5

Date Collected: 12/01/22 12:16
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-19
Matrix: Solid

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		12/12/22 15:46	12/15/22 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 03:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/15/22 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/15/22 03:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/22 15:46	12/15/22 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*12/12/22 15:46*	*12/15/22 03:16*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/12/22 15:46*	*12/15/22 03:16*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 05:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/10/22 05:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-10, 0-0.5

Date Collected: 12/01/22 12:16
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-19
Matrix: Solid

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		12/07/22 12:05	12/10/22 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 05:27*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*12/07/22 12:05*	*12/10/22 05:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**982**		5.01		mg/Kg			12/08/22 04:03	1

Client Sample ID: S-10, 0.5-1

Date Collected: 12/01/22 12:18
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-20
Matrix: Solid

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		12/12/22 15:46	12/15/22 03:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 03:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 03:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 03:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:46	12/15/22 03:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:46	12/15/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/12/22 15:46*	*12/15/22 03:36*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*12/12/22 15:46*	*12/15/22 03:36*	*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			12/15/22 12:12	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			12/12/22 10:49	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		12/07/22 12:05	12/10/22 05:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 05:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:05	12/10/22 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*12/07/22 12:05*	*12/10/22 05:48*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*12/07/22 12:05*	*12/10/22 05:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**620**		4.98		mg/Kg			12/08/22 04:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-11, 0-0.5

Date Collected: 12/01/22 12:21
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202		mg/Kg		12/13/22 13:00	12/15/22 07:14	1
Toluene	<0.00202	U F2 F1	0.00202		mg/Kg		12/13/22 13:00	12/15/22 07:14	1
Ethylbenzene	<0.00202	U F2 F1	0.00202		mg/Kg		12/13/22 13:00	12/15/22 07:14	1
m,p-Xylenes	<0.00403	U F2 F1	0.00403		mg/Kg		12/13/22 13:00	12/15/22 07:14	1
o-Xylene	<0.00202	U F2 F1	0.00202		mg/Kg		12/13/22 13:00	12/15/22 07:14	1
Xylenes, Total	<0.00403	U F2 F1	0.00403		mg/Kg		12/13/22 13:00	12/15/22 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:14*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/09/22 23:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 23:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/07/22 15:26*	*12/09/22 23:42*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*12/07/22 15:26*	*12/09/22 23:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**823**		5.04		mg/Kg			12/08/22 04:36	1

Client Sample ID: S-11, 0.5-1

Date Collected: 12/01/22 12:22
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-22

Matrix: Solid

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		12/13/22 13:00	12/15/22 07:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 07:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 07:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 07:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 07:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:35*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-11, 0.5-1

Date Collected: 12/01/22 12:22
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-22
Matrix: Solid

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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 00:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 00:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:02*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**900**		5.05		mg/Kg			12/08/22 04:44	1

Client Sample ID: S-12, 0-0.5

Date Collected: 12/01/22 12:27
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-23
Matrix: Solid

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		12/13/22 13:00	12/15/22 07:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 07:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 07:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 07:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 07:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:55*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/13/22 13:00*	*12/15/22 07:55*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 00:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/07/22 15:26	12/10/22 00:23	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-12, 0-0.5

Date Collected: 12/01/22 12:27
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-23
Matrix: Solid

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		12/07/22 15:26	12/10/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:23*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**926**		5.00		mg/Kg			12/08/22 04:52	1

Client Sample ID: S-12, 0.5-1

Date Collected: 12/01/22 12:28
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-24
Matrix: Solid

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		12/13/22 13:00	12/15/22 08:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 08:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 08:16	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 08:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 08:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:16*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:16*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 00:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 00:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:43*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*12/07/22 15:26*	*12/10/22 00:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.5**		4.98		mg/Kg			12/08/22 05:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-13, 0-0.5

Date Collected: 12/01/22 12:30
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-25

Matrix: Solid

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		12/13/22 13:00	12/15/22 08:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:36	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/13/22 13:00	12/15/22 08:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/22 13:00	12/15/22 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:36*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:36*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 01:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 01:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*12/07/22 15:26*	*12/10/22 01:03*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*12/07/22 15:26*	*12/10/22 01:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**978**		4.96		mg/Kg			12/08/22 05:08	1

Client Sample ID: S-13, 0.5-1

Date Collected: 12/01/22 12:33
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-26

Matrix: Solid

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		12/13/22 13:00	12/15/22 08:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/13/22 13:00	12/15/22 08:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 08:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/22 13:00	12/15/22 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:57*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/13/22 13:00*	*12/15/22 08:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-13, 0.5-1

Date Collected: 12/01/22 12:33
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-26
Matrix: Solid

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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 01:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*12/07/22 15:26*	*12/10/22 01:23*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/07/22 15:26*	*12/10/22 01:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		5.03		mg/Kg			12/08/22 05:33	1

Client Sample ID: S-14, 0-0.5

Date Collected: 12/01/22 12:35
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-27
Matrix: Solid

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		12/13/22 13:00	12/15/22 09:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 09:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 09:17	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 09:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 09:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:17*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 02:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-14, 0-0.5

Date Collected: 12/01/22 12:35
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-27

Matrix: Solid

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		12/07/22 15:26	12/10/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:04*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**982**		5.02		mg/Kg			12/08/22 05:41	1

Client Sample ID: S-14, 0.5-1

Date Collected: 12/01/22 12:37
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-28

Matrix: Solid

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		12/13/22 13:00	12/15/22 09:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/13/22 13:00	12/15/22 09:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/13/22 13:00	12/15/22 09:38	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/13/22 13:00	12/15/22 09:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/13/22 13:00	12/15/22 09:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/13/22 13:00	12/15/22 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:38*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:38*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 02:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:24*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.1**		4.98		mg/Kg			12/08/22 06:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: North 0-0.5

Date Collected: 12/01/22 12:39
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-29

Matrix: Solid

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		12/13/22 13:00	12/15/22 09:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 09:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 09:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 09:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 09:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:58*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/13/22 13:00*	*12/15/22 09:58*	*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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 02:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 02:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:45*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*12/07/22 15:26*	*12/10/22 02:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		5.04		mg/Kg			12/08/22 06:13	1

Client Sample ID: North 0.5-1

Date Collected: 12/01/22 12:41
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-30

Matrix: Solid

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		12/13/22 13:00	12/15/22 10:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 10:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 10:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 10:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 10:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/13/22 13:00*	*12/15/22 10:18*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/13/22 13:00*	*12/15/22 10:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: North 0.5-1

Date Collected: 12/01/22 12:41
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-30

Matrix: Solid

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			12/15/22 12:12	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 03:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 03:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*12/07/22 15:26*	*12/10/22 03:05*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*12/07/22 15:26*	*12/10/22 03:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.5**		5.00		mg/Kg			12/08/22 06:21	1

Client Sample ID: South 0-0.5

Date Collected: 12/01/22 12:44
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-31

Matrix: Solid

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		12/13/22 13:00	12/15/22 12:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 12:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 12:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 12:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/22 13:00	12/15/22 12:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/22 13:00	12/15/22 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:09*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:09*	*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			12/15/22 15:48	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 03:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 03:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: South 0-0.5

Date Collected: 12/01/22 12:44
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-31

Matrix: Solid

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		12/07/22 15:26	12/10/22 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/07/22 15:26*	*12/10/22 03:25*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*12/07/22 15:26*	*12/10/22 03:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.1**		4.97		mg/Kg			12/08/22 06:30	1

Client Sample ID: South 0.5-1

Date Collected: 12/01/22 12:45
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-32

Matrix: Solid

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		12/13/22 13:00	12/15/22 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 12:29	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/22 13:00	12/15/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:29*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:29*	*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			12/15/22 15:48	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 03:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*12/07/22 15:26*	*12/10/22 03:45*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/07/22 15:26*	*12/10/22 03:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.3**		4.95		mg/Kg			12/08/22 06:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: West 0-0.5

Date Collected: 12/01/22 12:47
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-33

Matrix: Solid

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		12/13/22 13:00	12/15/22 12:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 12:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 12:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 12:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/22 13:00	12/15/22 12:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/22 13:00	12/15/22 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/13/22 13:00*	*12/15/22 12:50*	*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			12/15/22 15:48	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 04:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 04:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/10/22 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*12/07/22 15:26*	*12/10/22 04:05*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*12/07/22 15:26*	*12/10/22 04:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.2**		4.97		mg/Kg			12/08/22 06:46	1

Client Sample ID: West 0.5-1

Date Collected: 12/01/22 12:50
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-34

Matrix: Solid

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		12/13/22 13:00	12/15/22 13:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 13:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 13:10	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/13/22 13:00	12/15/22 13:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:00	12/15/22 13:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/22 13:00	12/15/22 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/13/22 13:00*	*12/15/22 13:10*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/13/22 13:00*	*12/15/22 13:10*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: West 0.5-1

Date Collected: 12/01/22 12:50
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-34

Matrix: Solid

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			12/15/22 15:48	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			12/12/22 09:03	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		12/07/22 15:26	12/10/22 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 04:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/10/22 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*12/07/22 15:26*	*12/10/22 04:25*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*12/07/22 15:26*	*12/10/22 04:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.7**		5.01		mg/Kg			12/08/22 06:54	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-22230-1	S-1, 0-0.5	109	102										
880-22230-1 MS	S-1, 0-0.5	70	112										
880-22230-1 MSD	S-1, 0-0.5	83	112										
880-22230-2	S-1, 0.5-1	109	109										
880-22230-3	S-2, 0-0.5	123	96										
880-22230-4	S-2, 0.5-1	122	104										
880-22230-5	S-3, 0-0.5	114	107										
880-22230-6	S-3, 0.5-1	74	101										
880-22230-7	S-4, 0-0.5	123	107										
880-22230-8	S-4, 0.5-1	89	122										
880-22230-9	S-5, 0-0.5	87	114										
880-22230-10	S-5, 0.5-1	63 S1-	106										
880-22230-11	S-6, 0-0.5	126	95										
880-22230-12	S-6, 0.5-1	82	107										
880-22230-13	S-7, 0-0.5	116	105										
880-22230-14	S-7, 0.5-1	94	102										
880-22230-15	S-8, 0-0.5	117	106										
880-22230-16	S-8, 0.5-1	116	107										
880-22230-17	S-9, 0-0.5	108	111										
880-22230-18	S-9, 0.5-1	95	110										
880-22230-19	S-10, 0-0.5	73	101										
880-22230-20	S-10, 0.5-1	82	120										
880-22230-21	S-11, 0-0.5	109	97										
880-22230-21 MS	S-11, 0-0.5	69 S1-	101										
880-22230-21 MSD	S-11, 0-0.5	113	96										
880-22230-22	S-11, 0.5-1	113	115										
880-22230-23	S-12, 0-0.5	112	99										
880-22230-24	S-12, 0.5-1	114	103										
880-22230-25	S-13, 0-0.5	100	107										
880-22230-26	S-13, 0.5-1	93	101										
880-22230-27	S-14, 0-0.5	127	103										
880-22230-28	S-14, 0.5-1	84	109										
880-22230-29	North 0-0.5	95	106										
880-22230-30	North 0.5-1	79	103										
880-22230-31	South 0-0.5	70	107										
880-22230-32	South 0.5-1	110	106										
880-22230-33	West 0-0.5	111	102										
880-22230-34	West 0.5-1	118	103										
LCS 880-41667/1-A	Lab Control Sample	72	120										
LCS 880-41753/1-A	Lab Control Sample	118	98										
LCSD 880-41667/2-A	Lab Control Sample Dup	95	141 S1+										
LCSD 880-41753/2-A	Lab Control Sample Dup	105	98										
MB 880-41667/5-A	Method Blank	59 S1-	109										
MB 880-41753/5-A	Method Blank	57 S1-	110										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-22230-1	S-1, 0-0.5	117	125										
880-22230-1 MS	S-1, 0-0.5	118	115										
880-22230-1 MSD	S-1, 0-0.5	117	106										
880-22230-2	S-1, 0.5-1	122	132 S1+										
880-22230-3	S-2, 0-0.5	116	122										
880-22230-4	S-2, 0.5-1	119	127										
880-22230-5	S-3, 0-0.5	128	138 S1+										
880-22230-6	S-3, 0.5-1	125	137 S1+										
880-22230-7	S-4, 0-0.5	123	133 S1+										
880-22230-8	S-4, 0.5-1	141 S1+	143 S1+										
880-22230-9	S-5, 0-0.5	127	118										
880-22230-10	S-5, 0.5-1	135 S1+	125										
880-22230-11	S-6, 0-0.5	127	137 S1+										
880-22230-12	S-6, 0.5-1	140 S1+	144 S1+										
880-22230-13	S-7, 0-0.5	132 S1+	139 S1+										
880-22230-14	S-7, 0.5-1	122	124										
880-22230-15	S-8, 0-0.5	118	124										
880-22230-16	S-8, 0.5-1	129	135 S1+										
880-22230-17	S-9, 0-0.5	136 S1+	134 S1+										
880-22230-18	S-9, 0.5-1	123	120										
880-22230-19	S-10, 0-0.5	133 S1+	135 S1+										
880-22230-20	S-10, 0.5-1	128	128										
880-22230-21	S-11, 0-0.5	116	119										
880-22230-22	S-11, 0.5-1	114	119										
880-22230-23	S-12, 0-0.5	111	114										
880-22230-24	S-12, 0.5-1	114	119										
880-22230-25	S-13, 0-0.5	108	111										
880-22230-26	S-13, 0.5-1	125	130										
880-22230-27	S-14, 0-0.5	115	118										
880-22230-28	S-14, 0.5-1	117	120										
880-22230-29	North 0-0.5	123	127										
880-22230-30	North 0.5-1	136 S1+	139 S1+										
880-22230-31	South 0-0.5	117	119										
880-22230-32	South 0.5-1	121	124										
880-22230-33	West 0-0.5	121	126										
880-22230-34	West 0.5-1	126	133 S1+										
LCS 880-41279/2-A	Lab Control Sample	127	125										
LCS 880-41296/2-A	Lab Control Sample	98	99										
LCSD 880-41279/3-A	Lab Control Sample Dup	137 S1+	144 S1+										
LCSD 880-41296/3-A	Lab Control Sample Dup	91	92										
MB 880-41279/1-A	Method Blank	111	157 S1+										
MB 880-41296/1-A	Method Blank	105	143 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41667/5-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41667

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 19:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/12/22 15:46	12/14/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:46	12/14/22 19:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/22 15:46	12/14/22 19:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*12/12/22 15:46*	*12/14/22 19:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/12/22 15:46*	*12/14/22 19:09*	*1*

Lab Sample ID: LCS 880-41667/1-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41667

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1124		mg/Kg		112	70 - 130		
Toluene			0.100	0.08771		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.07611		mg/Kg		76	70 - 130		
m,p-Xylenes			0.200	0.1418		mg/Kg		71	70 - 130		
o-Xylene			0.100	0.07008		mg/Kg		70	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-41667/2-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41667

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1192		mg/Kg		119	70 - 130	6	35
Toluene			0.100	0.09156		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.08590		mg/Kg		86	70 - 130	12	35
m,p-Xylenes			0.200	0.1775		mg/Kg		89	70 - 130	22	35
o-Xylene			0.100	0.07115		mg/Kg		71	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*141*	*S1+*	*70 - 130*

Lab Sample ID: 880-22230-1 MS
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-1, 0-0.5
Prep Type: Total/NA
Prep Batch: 41667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.07618		mg/Kg		76	70 - 130		
Toluene	<0.00199	U F1	0.0998	0.05509	F1	mg/Kg		55	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Lab Sample ID: 880-22230-1 MS
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-1, 0-0.5
Prep Type: Total/NA
Prep Batch: 41667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.04717	F1	mg/Kg		47	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.08954	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.04500	F1	mg/Kg		44	70 - 130

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

Lab Sample ID: 880-22230-1 MSD
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-1, 0-0.5
Prep Type: Total/NA
Prep Batch: 41667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07702		mg/Kg		77	70 - 130	1	35
Toluene	<0.00199	U F1	0.100	0.06397	F1	mg/Kg		64	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.100	0.05664	F1	mg/Kg		57	70 - 130	18	35
m,p-Xylenes	<0.00398	U F1	0.200	0.1128	F1	mg/Kg		56	70 - 130	23	35
o-Xylene	<0.00199	U F1	0.100	0.05613	F1	mg/Kg		55	70 - 130	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-41753/5-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41753

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 13:00	12/15/22 06:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 13:00	12/15/22 06:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 13:00	12/15/22 06:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/13/22 13:00	12/15/22 06:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 13:00	12/15/22 06:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/13/22 13:00	12/15/22 06:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*12/13/22 13:00*	*12/15/22 06:45*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/13/22 13:00*	*12/15/22 06:45*	*1*

Lab Sample ID: LCS 880-41753/1-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09661		mg/Kg		97	70 - 130
Toluene	0.100	0.1010		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130
m,p-Xylenes	0.200	0.2298		mg/Kg		115	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-41753/1-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1176		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-41753/2-A
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41753

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08563		mg/Kg		86	70 - 130	12	35
Toluene			0.100	0.08345		mg/Kg		83	70 - 130	19	35
Ethylbenzene			0.100	0.08697		mg/Kg		87	70 - 130	18	35
m,p-Xylenes			0.200	0.1905		mg/Kg		95	70 - 130	19	35
o-Xylene			0.100	0.09656		mg/Kg		97	70 - 130	20	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-22230-21 MS
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-11, 0-0.5
Prep Type: Total/NA
Prep Batch: 41753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F2 F1	0.0990	0.02547	F1	mg/Kg		26	70 - 130		
Toluene	<0.00202	U F2 F1	0.0990	0.02146	F1	mg/Kg		22	70 - 130		
Ethylbenzene	<0.00202	U F2 F1	0.0990	0.02407	F1	mg/Kg		24	70 - 130		
m,p-Xylenes	<0.00403	U F2 F1	0.198	0.04406	F1	mg/Kg		22	70 - 130		
o-Xylene	<0.00202	U F2 F1	0.0990	0.02443	F1	mg/Kg		24	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-22230-21 MSD
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-11, 0-0.5
Prep Type: Total/NA
Prep Batch: 41753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.100	0.06843	F2 F1	mg/Kg		68	70 - 130	92	35
Toluene	<0.00202	U F2 F1	0.100	0.06860	F2 F1	mg/Kg		68	70 - 130	105	35
Ethylbenzene	<0.00202	U F2 F1	0.100	0.06860	F2 F1	mg/Kg		68	70 - 130	96	35
m,p-Xylenes	<0.00403	U F2 F1	0.200	0.1477	F2	mg/Kg		74	70 - 130	108	35
o-Xylene	<0.00202	U F2 F1	0.100	0.07496	F2	mg/Kg		74	70 - 130	102	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Lab Sample ID: 880-22230-21 MSD
Matrix: Solid
Analysis Batch: 41835

Client Sample ID: S-11, 0-0.5
Prep Type: Total/NA
Prep Batch: 41753

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-41279/1-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41279

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		12/07/22 12:05	12/09/22 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:05	12/09/22 20:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	12/07/22 12:05	12/09/22 20:49	1
o-Terphenyl (Surr)	157	S1+	70 - 130	12/07/22 12:05	12/09/22 20:49	1

Lab Sample ID: LCS 880-41279/2-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	920.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	920.3		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	127		70 - 130
o-Terphenyl (Surr)	125		70 - 130

Lab Sample ID: LCSD 880-41279/3-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41279

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	913.2		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	962.7		mg/Kg		96	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	137	S1+	70 - 130
o-Terphenyl (Surr)	144	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Lab Sample ID: 880-22230-1 MS
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: S-1, 0-0.5
Prep Type: Total/NA
Prep Batch: 41279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	1217		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1098		mg/Kg		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*118*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-22230-1 MSD
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: S-1, 0-0.5
Prep Type: Total/NA
Prep Batch: 41279

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	<50.0	U F2	997	894.9	F2	mg/Kg		87	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1010		mg/Kg		101	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*117*		*70 - 130*
o-Terphenyl (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-41296/1-A
Matrix: Solid
Analysis Batch: 41416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41296

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		12/07/22 15:26	12/09/22 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 20:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 20:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*12/07/22 15:26*	*12/09/22 20:40*	*1*
o-Terphenyl (Surr)	*143*	*S1+*	*70 - 130*	*12/07/22 15:26*	*12/09/22 20:40*	*1*

Lab Sample ID: LCS 880-41296/2-A
Matrix: Solid
Analysis Batch: 41416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	886.7		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)			1000	910.5		mg/Kg		91	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-41296/2-A
Matrix: Solid
Analysis Batch: 41416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41296

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-41296/3-A
Matrix: Solid
Analysis Batch: 41416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	869.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	862.9		mg/Kg		86	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40976/1-A
Matrix: Solid
Analysis Batch: 41271

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			12/08/22 02:50	1

Lab Sample ID: LCS 880-40976/2-A
Matrix: Solid
Analysis Batch: 41271

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.4		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-40976/3-A
Matrix: Solid
Analysis Batch: 41271

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	234.8		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 880-22230-15 MS
Matrix: Solid
Analysis Batch: 41271

Client Sample ID: S-8, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	947	F1	249	1139	F1	mg/Kg		77	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22230-15 MSD
Matrix: Solid
Analysis Batch: 41271

Client Sample ID: S-8, 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	947	F1	249	1108	F1	mg/Kg		64	90 - 110	3	20

Lab Sample ID: 880-22230-25 MS
Matrix: Solid
Analysis Batch: 41271

Client Sample ID: S-13, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	978		248	1202		mg/Kg		90	90 - 110

Lab Sample ID: 880-22230-25 MSD
Matrix: Solid
Analysis Batch: 41271

Client Sample ID: S-13, 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	978		248	1201		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-40975/1-A
Matrix: Solid
Analysis Batch: 41275

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			12/09/22 14:57	1

Lab Sample ID: LCS 880-40975/2-A
Matrix: Solid
Analysis Batch: 41275

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-40975/3-A
Matrix: Solid
Analysis Batch: 41275

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	285.0	*+	mg/Kg		114	90 - 110	7	20

Lab Sample ID: 880-22230-5 MS
Matrix: Solid
Analysis Batch: 41275

Client Sample ID: S-3, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	277	*+	251	544.1		mg/Kg		107	90 - 110

Lab Sample ID: 880-22230-5 MSD
Matrix: Solid
Analysis Batch: 41275

Client Sample ID: S-3, 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	277	*+	251	544.1		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC VOA

Prep Batch: 41667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	5035	
880-22230-2	S-1, 0.5-1	Total/NA	Solid	5035	
880-22230-3	S-2, 0-0.5	Total/NA	Solid	5035	
880-22230-4	S-2, 0.5-1	Total/NA	Solid	5035	
880-22230-5	S-3, 0-0.5	Total/NA	Solid	5035	
880-22230-6	S-3, 0.5-1	Total/NA	Solid	5035	
880-22230-7	S-4, 0-0.5	Total/NA	Solid	5035	
880-22230-8	S-4, 0.5-1	Total/NA	Solid	5035	
880-22230-9	S-5, 0-0.5	Total/NA	Solid	5035	
880-22230-10	S-5, 0.5-1	Total/NA	Solid	5035	
880-22230-11	S-6, 0-0.5	Total/NA	Solid	5035	
880-22230-12	S-6, 0.5-1	Total/NA	Solid	5035	
880-22230-13	S-7, 0-0.5	Total/NA	Solid	5035	
880-22230-14	S-7, 0.5-1	Total/NA	Solid	5035	
880-22230-15	S-8, 0-0.5	Total/NA	Solid	5035	
880-22230-16	S-8, 0.5-1	Total/NA	Solid	5035	
880-22230-17	S-9, 0-0.5	Total/NA	Solid	5035	
880-22230-18	S-9, 0.5-1	Total/NA	Solid	5035	
880-22230-19	S-10, 0-0.5	Total/NA	Solid	5035	
880-22230-20	S-10, 0.5-1	Total/NA	Solid	5035	
MB 880-41667/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41667/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41667/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22230-1 MS	S-1, 0-0.5	Total/NA	Solid	5035	
880-22230-1 MSD	S-1, 0-0.5	Total/NA	Solid	5035	

Prep Batch: 41753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-21	S-11, 0-0.5	Total/NA	Solid	5035	
880-22230-22	S-11, 0.5-1	Total/NA	Solid	5035	
880-22230-23	S-12, 0-0.5	Total/NA	Solid	5035	
880-22230-24	S-12, 0.5-1	Total/NA	Solid	5035	
880-22230-25	S-13, 0-0.5	Total/NA	Solid	5035	
880-22230-26	S-13, 0.5-1	Total/NA	Solid	5035	
880-22230-27	S-14, 0-0.5	Total/NA	Solid	5035	
880-22230-28	S-14, 0.5-1	Total/NA	Solid	5035	
880-22230-29	North 0-0.5	Total/NA	Solid	5035	
880-22230-30	North 0.5-1	Total/NA	Solid	5035	
880-22230-31	South 0-0.5	Total/NA	Solid	5035	
880-22230-32	South 0.5-1	Total/NA	Solid	5035	
880-22230-33	West 0-0.5	Total/NA	Solid	5035	
880-22230-34	West 0.5-1	Total/NA	Solid	5035	
MB 880-41753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22230-21 MS	S-11, 0-0.5	Total/NA	Solid	5035	
880-22230-21 MSD	S-11, 0-0.5	Total/NA	Solid	5035	

Analysis Batch: 41835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	8021B	41667

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 41835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-2	S-1, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-3	S-2, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-4	S-2, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-5	S-3, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-6	S-3, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-7	S-4, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-8	S-4, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-9	S-5, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-10	S-5, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-11	S-6, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-12	S-6, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-13	S-7, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-14	S-7, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-15	S-8, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-16	S-8, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-17	S-9, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-18	S-9, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-19	S-10, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-20	S-10, 0.5-1	Total/NA	Solid	8021B	41667
880-22230-21	S-11, 0-0.5	Total/NA	Solid	8021B	41753
880-22230-22	S-11, 0.5-1	Total/NA	Solid	8021B	41753
880-22230-23	S-12, 0-0.5	Total/NA	Solid	8021B	41753
880-22230-24	S-12, 0.5-1	Total/NA	Solid	8021B	41753
880-22230-25	S-13, 0-0.5	Total/NA	Solid	8021B	41753
880-22230-26	S-13, 0.5-1	Total/NA	Solid	8021B	41753
880-22230-27	S-14, 0-0.5	Total/NA	Solid	8021B	41753
880-22230-28	S-14, 0.5-1	Total/NA	Solid	8021B	41753
880-22230-29	North 0-0.5	Total/NA	Solid	8021B	41753
880-22230-30	North 0.5-1	Total/NA	Solid	8021B	41753
880-22230-31	South 0-0.5	Total/NA	Solid	8021B	41753
880-22230-32	South 0.5-1	Total/NA	Solid	8021B	41753
880-22230-33	West 0-0.5	Total/NA	Solid	8021B	41753
880-22230-34	West 0.5-1	Total/NA	Solid	8021B	41753
MB 880-41667/5-A	Method Blank	Total/NA	Solid	8021B	41667
MB 880-41753/5-A	Method Blank	Total/NA	Solid	8021B	41753
LCS 880-41667/1-A	Lab Control Sample	Total/NA	Solid	8021B	41667
LCS 880-41753/1-A	Lab Control Sample	Total/NA	Solid	8021B	41753
LCSD 880-41667/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41667
LCSD 880-41753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41753
880-22230-1 MS	S-1, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-1 MSD	S-1, 0-0.5	Total/NA	Solid	8021B	41667
880-22230-21 MS	S-11, 0-0.5	Total/NA	Solid	8021B	41753
880-22230-21 MSD	S-11, 0-0.5	Total/NA	Solid	8021B	41753

Analysis Batch: 41919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-2	S-1, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-3	S-2, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-4	S-2, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-5	S-3, 0-0.5	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 41919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-6	S-3, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-7	S-4, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-8	S-4, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-9	S-5, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-10	S-5, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-11	S-6, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-12	S-6, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-13	S-7, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-14	S-7, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-15	S-8, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-16	S-8, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-17	S-9, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-18	S-9, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-19	S-10, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-20	S-10, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-21	S-11, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-22	S-11, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-23	S-12, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-24	S-12, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-25	S-13, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-26	S-13, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-27	S-14, 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-28	S-14, 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-29	North 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-30	North 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-31	South 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-32	South 0.5-1	Total/NA	Solid	Total BTEX	
880-22230-33	West 0-0.5	Total/NA	Solid	Total BTEX	
880-22230-34	West 0.5-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-2	S-1, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-3	S-2, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-4	S-2, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-5	S-3, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-6	S-3, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-7	S-4, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-8	S-4, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-9	S-5, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-10	S-5, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-11	S-6, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-12	S-6, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-13	S-7, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-14	S-7, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-15	S-8, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-16	S-8, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-17	S-9, 0-0.5	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Prep Batch: 41279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-18	S-9, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-19	S-10, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-20	S-10, 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-41279/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41279/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41279/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22230-1 MS	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-1 MSD	S-1, 0-0.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 41296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-21	S-11, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-22	S-11, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-23	S-12, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-24	S-12, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-25	S-13, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-26	S-13, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-27	S-14, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-28	S-14, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-29	North 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-30	North 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-31	South 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-32	South 0.5-1	Total/NA	Solid	8015NM Prep	
880-22230-33	West 0-0.5	Total/NA	Solid	8015NM Prep	
880-22230-34	West 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-41296/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41296/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-2	S-1, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-3	S-2, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-4	S-2, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-5	S-3, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-6	S-3, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-7	S-4, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-8	S-4, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-9	S-5, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-10	S-5, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-11	S-6, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-12	S-6, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-13	S-7, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-14	S-7, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-15	S-8, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-16	S-8, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-17	S-9, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-18	S-9, 0.5-1	Total/NA	Solid	8015B NM	41279
880-22230-19	S-10, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-20	S-10, 0.5-1	Total/NA	Solid	8015B NM	41279

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 41411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41279/1-A	Method Blank	Total/NA	Solid	8015B NM	41279
LCS 880-41279/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41279
LCSD 880-41279/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41279
880-22230-1 MS	S-1, 0-0.5	Total/NA	Solid	8015B NM	41279
880-22230-1 MSD	S-1, 0-0.5	Total/NA	Solid	8015B NM	41279

Analysis Batch: 41416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-21	S-11, 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-22	S-11, 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-23	S-12, 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-24	S-12, 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-25	S-13, 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-26	S-13, 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-27	S-14, 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-28	S-14, 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-29	North 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-30	North 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-31	South 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-32	South 0.5-1	Total/NA	Solid	8015B NM	41296
880-22230-33	West 0-0.5	Total/NA	Solid	8015B NM	41296
880-22230-34	West 0.5-1	Total/NA	Solid	8015B NM	41296
MB 880-41296/1-A	Method Blank	Total/NA	Solid	8015B NM	41296
LCS 880-41296/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41296
LCSD 880-41296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41296

Analysis Batch: 41574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-2	S-1, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-3	S-2, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-4	S-2, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-5	S-3, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-6	S-3, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-7	S-4, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-8	S-4, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-9	S-5, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-10	S-5, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-11	S-6, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-12	S-6, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-13	S-7, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-14	S-7, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-15	S-8, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-16	S-8, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-17	S-9, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-18	S-9, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-19	S-10, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-20	S-10, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-21	S-11, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-22	S-11, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-23	S-12, 0-0.5	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 41574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-24	S-12, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-25	S-13, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-26	S-13, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-27	S-14, 0-0.5	Total/NA	Solid	8015 NM	
880-22230-28	S-14, 0.5-1	Total/NA	Solid	8015 NM	
880-22230-29	North 0-0.5	Total/NA	Solid	8015 NM	
880-22230-30	North 0.5-1	Total/NA	Solid	8015 NM	
880-22230-31	South 0-0.5	Total/NA	Solid	8015 NM	
880-22230-32	South 0.5-1	Total/NA	Solid	8015 NM	
880-22230-33	West 0-0.5	Total/NA	Solid	8015 NM	
880-22230-34	West 0.5-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Soluble	Solid	DI Leach	
880-22230-2	S-1, 0.5-1	Soluble	Solid	DI Leach	
880-22230-3	S-2, 0-0.5	Soluble	Solid	DI Leach	
880-22230-4	S-2, 0.5-1	Soluble	Solid	DI Leach	
880-22230-5	S-3, 0-0.5	Soluble	Solid	DI Leach	
880-22230-6	S-3, 0.5-1	Soluble	Solid	DI Leach	
880-22230-7	S-4, 0-0.5	Soluble	Solid	DI Leach	
880-22230-8	S-4, 0.5-1	Soluble	Solid	DI Leach	
880-22230-9	S-5, 0-0.5	Soluble	Solid	DI Leach	
880-22230-10	S-5, 0.5-1	Soluble	Solid	DI Leach	
880-22230-11	S-6, 0-0.5	Soluble	Solid	DI Leach	
880-22230-12	S-6, 0.5-1	Soluble	Solid	DI Leach	
880-22230-13	S-7, 0-0.5	Soluble	Solid	DI Leach	
880-22230-14	S-7, 0.5-1	Soluble	Solid	DI Leach	
MB 880-40975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22230-5 MS	S-3, 0-0.5	Soluble	Solid	DI Leach	
880-22230-5 MSD	S-3, 0-0.5	Soluble	Solid	DI Leach	

Leach Batch: 40976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-15	S-8, 0-0.5	Soluble	Solid	DI Leach	
880-22230-16	S-8, 0.5-1	Soluble	Solid	DI Leach	
880-22230-17	S-9, 0-0.5	Soluble	Solid	DI Leach	
880-22230-18	S-9, 0.5-1	Soluble	Solid	DI Leach	
880-22230-19	S-10, 0-0.5	Soluble	Solid	DI Leach	
880-22230-20	S-10, 0.5-1	Soluble	Solid	DI Leach	
880-22230-21	S-11, 0-0.5	Soluble	Solid	DI Leach	
880-22230-22	S-11, 0.5-1	Soluble	Solid	DI Leach	
880-22230-23	S-12, 0-0.5	Soluble	Solid	DI Leach	
880-22230-24	S-12, 0.5-1	Soluble	Solid	DI Leach	
880-22230-25	S-13, 0-0.5	Soluble	Solid	DI Leach	
880-22230-26	S-13, 0.5-1	Soluble	Solid	DI Leach	
880-22230-27	S-14, 0-0.5	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 40976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-28	S-14, 0.5-1	Soluble	Solid	DI Leach	
880-22230-29	North 0-0.5	Soluble	Solid	DI Leach	
880-22230-30	North 0.5-1	Soluble	Solid	DI Leach	
880-22230-31	South 0-0.5	Soluble	Solid	DI Leach	
880-22230-32	South 0.5-1	Soluble	Solid	DI Leach	
880-22230-33	West 0-0.5	Soluble	Solid	DI Leach	
880-22230-34	West 0.5-1	Soluble	Solid	DI Leach	
MB 880-40976/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40976/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40976/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22230-15 MS	S-8, 0-0.5	Soluble	Solid	DI Leach	
880-22230-15 MSD	S-8, 0-0.5	Soluble	Solid	DI Leach	
880-22230-25 MS	S-13, 0-0.5	Soluble	Solid	DI Leach	
880-22230-25 MSD	S-13, 0-0.5	Soluble	Solid	DI Leach	

Analysis Batch: 41271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-15	S-8, 0-0.5	Soluble	Solid	300.0	40976
880-22230-16	S-8, 0.5-1	Soluble	Solid	300.0	40976
880-22230-17	S-9, 0-0.5	Soluble	Solid	300.0	40976
880-22230-18	S-9, 0.5-1	Soluble	Solid	300.0	40976
880-22230-19	S-10, 0-0.5	Soluble	Solid	300.0	40976
880-22230-20	S-10, 0.5-1	Soluble	Solid	300.0	40976
880-22230-21	S-11, 0-0.5	Soluble	Solid	300.0	40976
880-22230-22	S-11, 0.5-1	Soluble	Solid	300.0	40976
880-22230-23	S-12, 0-0.5	Soluble	Solid	300.0	40976
880-22230-24	S-12, 0.5-1	Soluble	Solid	300.0	40976
880-22230-25	S-13, 0-0.5	Soluble	Solid	300.0	40976
880-22230-26	S-13, 0.5-1	Soluble	Solid	300.0	40976
880-22230-27	S-14, 0-0.5	Soluble	Solid	300.0	40976
880-22230-28	S-14, 0.5-1	Soluble	Solid	300.0	40976
880-22230-29	North 0-0.5	Soluble	Solid	300.0	40976
880-22230-30	North 0.5-1	Soluble	Solid	300.0	40976
880-22230-31	South 0-0.5	Soluble	Solid	300.0	40976
880-22230-32	South 0.5-1	Soluble	Solid	300.0	40976
880-22230-33	West 0-0.5	Soluble	Solid	300.0	40976
880-22230-34	West 0.5-1	Soluble	Solid	300.0	40976
MB 880-40976/1-A	Method Blank	Soluble	Solid	300.0	40976
LCS 880-40976/2-A	Lab Control Sample	Soluble	Solid	300.0	40976
LCSD 880-40976/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40976
880-22230-15 MS	S-8, 0-0.5	Soluble	Solid	300.0	40976
880-22230-15 MSD	S-8, 0-0.5	Soluble	Solid	300.0	40976
880-22230-25 MS	S-13, 0-0.5	Soluble	Solid	300.0	40976
880-22230-25 MSD	S-13, 0-0.5	Soluble	Solid	300.0	40976

Analysis Batch: 41275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-1	S-1, 0-0.5	Soluble	Solid	300.0	40975
880-22230-2	S-1, 0.5-1	Soluble	Solid	300.0	40975
880-22230-3	S-2, 0-0.5	Soluble	Solid	300.0	40975
880-22230-4	S-2, 0.5-1	Soluble	Solid	300.0	40975

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 41275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22230-5	S-3, 0-0.5	Soluble	Solid	300.0	40975
880-22230-6	S-3, 0.5-1	Soluble	Solid	300.0	40975
880-22230-7	S-4, 0-0.5	Soluble	Solid	300.0	40975
880-22230-8	S-4, 0.5-1	Soluble	Solid	300.0	40975
880-22230-9	S-5, 0-0.5	Soluble	Solid	300.0	40975
880-22230-10	S-5, 0.5-1	Soluble	Solid	300.0	40975
880-22230-11	S-6, 0-0.5	Soluble	Solid	300.0	40975
880-22230-12	S-6, 0.5-1	Soluble	Solid	300.0	40975
880-22230-13	S-7, 0-0.5	Soluble	Solid	300.0	40975
880-22230-14	S-7, 0.5-1	Soluble	Solid	300.0	40975
MB 880-40975/1-A	Method Blank	Soluble	Solid	300.0	40975
LCS 880-40975/2-A	Lab Control Sample	Soluble	Solid	300.0	40975
LCSD 880-40975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40975
880-22230-5 MS	S-3, 0-0.5	Soluble	Solid	300.0	40975
880-22230-5 MSD	S-3, 0-0.5	Soluble	Solid	300.0	40975

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-1, 0-0.5

Lab Sample ID: 880-22230-1
Matrix: Solid
Date Collected: 12/01/22 11:41
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 21:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 16:17	CH	EET MID

Client Sample ID: S-1, 0.5-1

Lab Sample ID: 880-22230-2
Matrix: Solid
Date Collected: 12/01/22 11:42
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 22:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 16:23	CH	EET MID

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-22230-3
Matrix: Solid
Date Collected: 12/01/22 11:44
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 23:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 16:29	CH	EET MID

Client Sample ID: S-2, 0.5-1

Lab Sample ID: 880-22230-4
Matrix: Solid
Date Collected: 12/01/22 11:45
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-2, 0.5-1

Lab Sample ID: 880-22230-4
Matrix: Solid
Date Collected: 12/01/22 11:45
Date Received: 12/02/22 14:53

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			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 23:42	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 16:35	CH	EET MID

Client Sample ID: S-3, 0-0.5

Lab Sample ID: 880-22230-5
Matrix: Solid
Date Collected: 12/01/22 11:48
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 21:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 16:41	CH	EET MID

Client Sample ID: S-3, 0.5-1

Lab Sample ID: 880-22230-6
Matrix: Solid
Date Collected: 12/01/22 11:49
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 21:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 00:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:00	CH	EET MID

Client Sample ID: S-4, 0-0.5

Lab Sample ID: 880-22230-7
Matrix: Solid
Date Collected: 12/01/22 11:50
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 00:46	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-4, 0-0.5

Date Collected: 12/01/22 11:50
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-7
Matrix: Solid

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	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		5			41275	12/09/22 17:06	CH	EET MID

Client Sample ID: S-4, 0.5-1

Date Collected: 12/01/22 11:51
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-8
Matrix: Solid

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 01:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		5			41275	12/09/22 17:25	CH	EET MID

Client Sample ID: S-5, 0-0.5

Date Collected: 12/01/22 11:53
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-9
Matrix: Solid

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 22:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 01:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:31	CH	EET MID

Client Sample ID: S-5, 0.5-1

Date Collected: 12/01/22 11:54
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-10
Matrix: Solid

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/14/22 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 01:51	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:37	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-6, 0-0.5

Lab Sample ID: 880-22230-11

Date Collected: 12/01/22 11:57
Matrix: Solid
Date Received: 12/02/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 02:34	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:43	CH	EET MID

Client Sample ID: S-6, 0.5-1

Lab Sample ID: 880-22230-12

Date Collected: 12/01/22 11:59
Matrix: Solid
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 02:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:49	CH	EET MID

Client Sample ID: S-7, 0-0.5

Lab Sample ID: 880-22230-13

Date Collected: 12/01/22 12:03
Matrix: Solid
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 03:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 17:55	CH	EET MID

Client Sample ID: S-7, 0.5-1

Lab Sample ID: 880-22230-14

Date Collected: 12/01/22 12:04
Matrix: Solid
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-7, 0.5-1

Lab Sample ID: 880-22230-14
Matrix: Solid
Date Collected: 12/01/22 12:04
Date Received: 12/02/22 14:53

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			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 03:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 18:02	CH	EET MID

Client Sample ID: S-8, 0-0.5

Lab Sample ID: 880-22230-15
Matrix: Solid
Date Collected: 12/01/22 12:07
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 01:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 03:14	CH	EET MID

Client Sample ID: S-8, 0.5-1

Lab Sample ID: 880-22230-16
Matrix: Solid
Date Collected: 12/01/22 12:09
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 02:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 04:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 03:39	CH	EET MID

Client Sample ID: S-9, 0-0.5

Lab Sample ID: 880-22230-17
Matrix: Solid
Date Collected: 12/01/22 12:13
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 04:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-9, 0-0.5

Lab Sample ID: 880-22230-17
Matrix: Solid
Date Collected: 12/01/22 12:13
Date Received: 12/02/22 14:53

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	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 03:47	CH	EET MID

Client Sample ID: S-9, 0.5-1

Lab Sample ID: 880-22230-18
Matrix: Solid
Date Collected: 12/01/22 12:15
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 02:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 05:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 03:55	CH	EET MID

Client Sample ID: S-10, 0-0.5

Lab Sample ID: 880-22230-19
Matrix: Solid
Date Collected: 12/01/22 12:16
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 05:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 04:03	CH	EET MID

Client Sample ID: S-10, 0.5-1

Lab Sample ID: 880-22230-20
Matrix: Solid
Date Collected: 12/01/22 12:18
Date Received: 12/02/22 14:53

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	41667	12/12/22 15:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41279	12/07/22 12:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/10/22 05:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 04:27	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-11, 0-0.5

Date Collected: 12/01/22 12:21
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-21

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/09/22 23:42	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 04:36	CH	EET MID

Client Sample ID: S-11, 0.5-1

Date Collected: 12/01/22 12:22
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-22

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 00:02	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 04:44	CH	EET MID

Client Sample ID: S-12, 0-0.5

Date Collected: 12/01/22 12:27
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-23

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 00:23	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 04:52	CH	EET MID

Client Sample ID: S-12, 0.5-1

Date Collected: 12/01/22 12:28
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 08:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-12, 0.5-1

Lab Sample ID: 880-22230-24
Matrix: Solid
Date Collected: 12/01/22 12:28
Date Received: 12/02/22 14:53

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			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 00:43	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 05:00	CH	EET MID

Client Sample ID: S-13, 0-0.5

Lab Sample ID: 880-22230-25
Matrix: Solid
Date Collected: 12/01/22 12:30
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 08:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 01:03	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 05:08	CH	EET MID

Client Sample ID: S-13, 0.5-1

Lab Sample ID: 880-22230-26
Matrix: Solid
Date Collected: 12/01/22 12:33
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 08:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 01:23	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 05:33	CH	EET MID

Client Sample ID: S-14, 0-0.5

Lab Sample ID: 880-22230-27
Matrix: Solid
Date Collected: 12/01/22 12:35
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 09:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 02:04	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: S-14, 0-0.5

Date Collected: 12/01/22 12:35
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-27

Matrix: Solid

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	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 05:41	CH	EET MID

Client Sample ID: S-14, 0.5-1

Date Collected: 12/01/22 12:37
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-28

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 09:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 02:24	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:05	CH	EET MID

Client Sample ID: North 0-0.5

Date Collected: 12/01/22 12:39
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-29

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 09:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 02:45	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:13	CH	EET MID

Client Sample ID: North 0.5-1

Date Collected: 12/01/22 12:41
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-30

Matrix: Solid

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 10:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 03:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:21	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: South 0-0.5

Lab Sample ID: 880-22230-31
Matrix: Solid
Date Collected: 12/01/22 12:44
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 03:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:30	CH	EET MID

Client Sample ID: South 0.5-1

Lab Sample ID: 880-22230-32
Matrix: Solid
Date Collected: 12/01/22 12:45
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 03:45	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:38	CH	EET MID

Client Sample ID: West 0-0.5

Lab Sample ID: 880-22230-33
Matrix: Solid
Date Collected: 12/01/22 12:47
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 04:05	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:46	CH	EET MID

Client Sample ID: West 0.5-1

Lab Sample ID: 880-22230-34
Matrix: Solid
Date Collected: 12/01/22 12:50
Date Received: 12/02/22 14:53

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	41753	12/13/22 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41835	12/15/22 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41919	12/15/22 15:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Client Sample ID: West 0.5-1

Date Collected: 12/01/22 12:50
Date Received: 12/02/22 14:53

Lab Sample ID: 880-22230-34

Matrix: Solid

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			41574	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/10/22 04:25	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40976	12/03/22 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			41271	12/08/22 06:54	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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	T104704400-22-24	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: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Breakwater-Pliny Elder

Job ID: 880-22230-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22230-1	S-1, 0-0.5	Solid	12/01/22 11:41	12/02/22 14:53
880-22230-2	S-1, 0.5-1	Solid	12/01/22 11:42	12/02/22 14:53
880-22230-3	S-2, 0-0.5	Solid	12/01/22 11:44	12/02/22 14:53
880-22230-4	S-2, 0.5-1	Solid	12/01/22 11:45	12/02/22 14:53
880-22230-5	S-3, 0-0.5	Solid	12/01/22 11:48	12/02/22 14:53
880-22230-6	S-3, 0.5-1	Solid	12/01/22 11:49	12/02/22 14:53
880-22230-7	S-4, 0-0.5	Solid	12/01/22 11:50	12/02/22 14:53
880-22230-8	S-4, 0.5-1	Solid	12/01/22 11:51	12/02/22 14:53
880-22230-9	S-5, 0-0.5	Solid	12/01/22 11:53	12/02/22 14:53
880-22230-10	S-5, 0.5-1	Solid	12/01/22 11:54	12/02/22 14:53
880-22230-11	S-6, 0-0.5	Solid	12/01/22 11:57	12/02/22 14:53
880-22230-12	S-6, 0.5-1	Solid	12/01/22 11:59	12/02/22 14:53
880-22230-13	S-7, 0-0.5	Solid	12/01/22 12:03	12/02/22 14:53
880-22230-14	S-7, 0.5-1	Solid	12/01/22 12:04	12/02/22 14:53
880-22230-15	S-8, 0-0.5	Solid	12/01/22 12:07	12/02/22 14:53
880-22230-16	S-8, 0.5-1	Solid	12/01/22 12:09	12/02/22 14:53
880-22230-17	S-9, 0-0.5	Solid	12/01/22 12:13	12/02/22 14:53
880-22230-18	S-9, 0.5-1	Solid	12/01/22 12:15	12/02/22 14:53
880-22230-19	S-10, 0-0.5	Solid	12/01/22 12:16	12/02/22 14:53
880-22230-20	S-10, 0.5-1	Solid	12/01/22 12:18	12/02/22 14:53
880-22230-21	S-11, 0-0.5	Solid	12/01/22 12:21	12/02/22 14:53
880-22230-22	S-11, 0.5-1	Solid	12/01/22 12:22	12/02/22 14:53
880-22230-23	S-12, 0-0.5	Solid	12/01/22 12:27	12/02/22 14:53
880-22230-24	S-12, 0.5-1	Solid	12/01/22 12:28	12/02/22 14:53
880-22230-25	S-13, 0-0.5	Solid	12/01/22 12:30	12/02/22 14:53
880-22230-26	S-13, 0.5-1	Solid	12/01/22 12:33	12/02/22 14:53
880-22230-27	S-14, 0-0.5	Solid	12/01/22 12:35	12/02/22 14:53
880-22230-28	S-14, 0.5-1	Solid	12/01/22 12:37	12/02/22 14:53
880-22230-29	North 0-0.5	Solid	12/01/22 12:39	12/02/22 14:53
880-22230-30	North 0.5-1	Solid	12/01/22 12:41	12/02/22 14:53
880-22230-31	South 0-0.5	Solid	12/01/22 12:44	12/02/22 14:53
880-22230-32	South 0.5-1	Solid	12/01/22 12:45	12/02/22 14:53
880-22230-33	West 0-0.5	Solid	12/01/22 12:47	12/02/22 14:53
880-22230-34	West 0.5-1	Solid	12/01/22 12:50	12/02/22 14:53

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22230 No. 2821

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 12/2/2022 PAGE 1 OF 3
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Breakwater - Pliny Ebler
LAI PROJECT # 22-0107-02 COLLECTOR RN + DSG

TRRP report? ☐ Yes ☑ No
TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-1, 0-0.5		12/1/22	1141	S	1				X		X		X	X	X												X		202
S-1, 0.5-1		"	1142	"	"				"		"		"	"	"												"		
S-2, 0-0.5			1144																										
S-2, 0.5-1			1145																										
S-3, 0-0.5			1148																										
S-3, 0.5-1			1149																										
S-4, 0-0.5			1150																										
S-4, 0.5-1			1151																										
S-5, 0-0.5			1153																										
S-5, 0.5-1			1154																										
S-6, 0-0.5			1157																										
S-6, 0.5-1			1159																										
S-7, 0-0.5			1203																										
S-7, 0.5-1			1204																										
S-8, 0-0.5		"	1207	"	"				"		"		"	"	"												"		
TOTAL																													

880-22230 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 12/2/22 1453	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.8/4.5 THERM# IR#36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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22230 No. 2822

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 12/2/2022 PAGE 2 OF 3
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Breakwater - Pliny Elder
LAI PROJECT #. 22-0107-02 COLLECTOR RN + DSG

TRRP report? ☐ Yes ☑ No
TIME ZONE Time zone/State: MST / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-8, 0.5-1		12/1/22	1209	S	1				X		X		X	X	X												X		
S-9, 0-0.5		"	1213	"	"				"		"		"	"	"												"		
S-9, 0.5-1		"	1215	"	"				"		"		"	"	"												"		
S-10, 0-0.5		"	1216	"	"				"		"		"	"	"												"		
S-10, 0.5-1		"	1218	"	"				"		"		"	"	"												"		
S-11, 0-0.5		"	1221	"	"				"		"		"	"	"												"		
S-11, 0.5-1		"	1222	"	"				"		"		"	"	"												"		
S-12, 0-0.5		"	1227	"	"				"		"		"	"	"												"		
S-12, 0.5-1		"	1228	"	"				"		"		"	"	"												"		
S-13, 0-0.5		"	1230	"	"				"		"		"	"	"												"		
S-13, 0.5-1		"	1233	"	"				"		"		"	"	"												"		
S-14, 0-0.5		"	1235	"	"				"		"		"	"	"												"		
S-14, 0.5-1		"	1237	"	"				"		"		"	"	"												"		
North, 0-0.5		"	1239	"	"				"		"		"	"	"												"		
North, 0.5-1		"	1241	"	"				"		"		"	"	"												"		
TOTAL																													

RELINQUISHED BY (Signature) DATE/TIME 12/2/22 1453 RECEIVED BY (Signature)
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
LABORATORY Xenco

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

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

12/15/2022

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22230 No. 2823

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 12/2/2022 PAGE 3 OF 3
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Breakwater - Pliny Elder
LAI PROJECT # 22-0107-02 COLLECTOR AN + OSG

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
South, 0-0.5		12/1/22	1244	S	1				X		X		X	X	X													X	
South, 0.5-1		"	1245	"	1				1		1		1	1	1													1	
East, 0-0.5		"	1247	"	1				1		1		1	1	1														
East, 0.5-1		"	1250	"	1				1		1		1	1	1														
TOTAL																													

Loc: 880
22230

RELINQUISHED BY (Signature) _____ DATE/TIME 12/2/22 1453 RECEIVED BY (Signature) _____
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____
RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____
LABORATORY Xenco

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

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22230-1
SDG Number: 22-0107-02

Login Number: 22230
List Number: 1
Creator: Rodriguez, Leticia

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	

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/23/2022 9:48:23 PM

JOB DESCRIPTION

Pliney Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-22534-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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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

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

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Laboratory Job ID: 880-22534-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-22534-1
Project/Site: Pliney Elder SDG: 22-0107-02

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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Job ID: 880-22534-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22534-1

Receipt
The samples were received on 12/9/2022 8:55 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 time was 3.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-15, 0-0.5 (880-22534-1), S-15, 0.5-1 (880-22534-2), S-16, 0-0.5 (880-22534-3), S-16, 0.5-1 (880-22534-4), S-17, 0-0.5 (880-22534-5), S-17, 0.5-1 (880-22534-6), S-18, 0-0.5 (880-22534-7), S-18, 0.5-1 (880-22534-8), S-19, 0-0.5 (880-22534-9), S-19, 0.5-1 (880-22534-10), S-20, 0-0.5 (880-22534-11), S-20, 0.5-1 (880-22534-12), S-21, 0-0.5 (880-22534-13), S-21, 0.5-1 (880-22534-14), S-22, 0-0.5 (880-22534-15), S-23, 0-0.5 (880-22534-16), S-23, 0.5-1 (880-22534-17), S-24, 0-0.5 (880-22534-18), S-25, 0-0.5 (880-22534-19) and S-26, 0-0.5 (880-22534-20).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-16, 0-0.5 (880-22534-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-42358 and analytical batch 880-42466 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41663 and analytical batch 880-41695 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-15, 0-0.5 (880-22534-1), S-15, 0.5-1 (880-22534-2), S-16, 0-0.5 (880-22534-3), S-16, 0.5-1 (880-22534-4) and S-17, 0-0.5 (880-22534-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-18, 0-0.5 (880-22534-7), S-18, 0.5-1 (880-22534-8) and S-19, 0.5-1 (880-22534-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-20, 0-0.5 (880-22534-11), S-21, 0-0.5 (880-22534-13), S-21, 0.5-1 (880-22534-14) and S-22, 0-0.5 (880-22534-15). 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.

HPLC/IC
Method 300_ORGFM_28D: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-41480 and analytical batch 880-42034. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41480 and analytical batch 880-42034 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.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-15, 0-0.5

Date Collected: 12/08/22 10:00
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		12/20/22 21:37	12/22/22 11:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 11:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 11:41	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 11:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 11:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:41*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 20:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 20:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*12/12/22 15:31*	*12/13/22 20:58*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 20:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1020**		5.03		mg/Kg			12/18/22 17:26	1

Client Sample ID: S-15, 0.5-1

Date Collected: 12/08/22 10:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-2

Matrix: Solid

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		12/20/22 21:37	12/22/22 12:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 12:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 12:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 12:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 12:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/20/22 21:37*	*12/22/22 12:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/20/22 21:37*	*12/22/22 12:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-15, 0.5-1

Date Collected: 12/08/22 10:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-2
Matrix: Solid

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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 22:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/12/22 15:31*	*12/13/22 22:04*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 22:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		5.00		mg/Kg			12/18/22 17:47	1

Client Sample ID: S-16, 0-0.5

Date Collected: 12/08/22 10:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-3
Matrix: Solid

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		12/20/22 21:37	12/22/22 12:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 12:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 12:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/22 21:37*	*12/22/22 12:23*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*12/20/22 21:37*	*12/22/22 12:23*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 22:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 22:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-16, 0-0.5

Lab Sample ID: 880-22534-3
Matrix: Solid
Date Collected: 12/08/22 10:30
Date Received: 12/09/22 08:55

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		12/12/22 15:31	12/13/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 22:26*	*1*
o-Terphenyl (Surr)	*154*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 22:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		4.97		mg/Kg			12/18/22 17:54	1

Client Sample ID: S-16, 0.5-1

Lab Sample ID: 880-22534-4
Matrix: Solid
Date Collected: 12/08/22 10:45
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 12:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 12:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 12:43	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 12:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 12:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/20/22 21:37*	*12/22/22 12:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/22 21:37*	*12/22/22 12:43*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 22:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 22:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 22:48*	*1*
o-Terphenyl (Surr)	*158*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 22:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			12/18/22 18:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-17, 0-0.5

Lab Sample ID: 880-22534-5
Matrix: Solid
Date Collected: 12/08/22 11:00
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 13:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 13:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 13:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 13:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 13:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:04*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 23:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/12/22 15:31*	*12/13/22 23:10*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 23:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		4.99		mg/Kg			12/18/22 18:09	1

Client Sample ID: S-17, 0.5-1

Lab Sample ID: 880-22534-6
Matrix: Solid
Date Collected: 12/08/22 11:15
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 13:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 13:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 13:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 13:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 13:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-17, 0.5-1

Lab Sample ID: 880-22534-6
Date Collected: 12/08/22 11:15
Matrix: Solid
Date Received: 12/09/22 08:55

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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 23:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/13/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*12/12/22 15:31*	*12/13/22 23:32*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*12/12/22 15:31*	*12/13/22 23:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		5.01		mg/Kg			12/18/22 18:30	1

Client Sample ID: S-18, 0-0.5

Lab Sample ID: 880-22534-7
Date Collected: 12/08/22 11:30
Matrix: Solid
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 13:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 13:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 21:37*	*12/22/22 13:45*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/13/22 23:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/13/22 23:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-18, 0-0.5

Date Collected: 12/08/22 11:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-7
Matrix: Solid

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		12/12/22 15:31	12/13/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*12/12/22 15:31*	*12/13/22 23:54*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 23:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.7**		5.00		mg/Kg			12/18/22 18:38	1

Client Sample ID: S-18, 0.5-1

Date Collected: 12/08/22 11:45
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-8
Matrix: Solid

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		12/20/22 21:37	12/22/22 14:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 14:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 14:06	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 14:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 14:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:06*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 00:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*12/12/22 15:31*	*12/14/22 00:16*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 00:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.4**		5.02		mg/Kg			12/18/22 18:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-19, 0-0.5

Date Collected: 12/08/22 12:00
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-9
Matrix: Solid

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		12/20/22 21:37	12/22/22 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 14:27	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/20/22 21:37	12/22/22 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 14:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/22 21:37	12/22/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:27*	*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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 00:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*12/12/22 15:31*	*12/14/22 00:38*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*12/12/22 15:31*	*12/14/22 00:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1040**		24.9		mg/Kg			12/19/22 23:05	5

Client Sample ID: S-19, 0.5-1

Date Collected: 12/08/22 12:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-10
Matrix: Solid

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		12/20/22 21:37	12/22/22 14:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 14:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 14:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 14:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 14:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/20/22 21:37*	*12/22/22 14:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-19, 0.5-1

Lab Sample ID: 880-22534-10
Matrix: Solid
Date Collected: 12/08/22 12:15
Date Received: 12/09/22 08:55

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			12/22/22 15:48	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 01:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 01:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*12/12/22 15:31*	*12/14/22 01:00*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 01:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**434**		5.00		mg/Kg			12/18/22 18:59	1

Client Sample ID: S-20, 0-0.5

Lab Sample ID: 880-22534-11
Matrix: Solid
Date Collected: 12/08/22 12:30
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 17:00	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/20/22 21:37	12/22/22 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 17:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/22 21:37	12/22/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:00*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 01:44	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-20, 0-0.5

Lab Sample ID: 880-22534-11
Matrix: Solid
Date Collected: 12/08/22 12:30
Date Received: 12/09/22 08:55

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		12/12/22 15:31	12/14/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*12/12/22 15:31*	*12/14/22 01:44*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 01:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**807**	**F1**	5.01		mg/Kg			12/18/22 19:07	1

Client Sample ID: S-20, 0.5-1

Lab Sample ID: 880-22534-12
Matrix: Solid
Date Collected: 12/08/22 12:45
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 17:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 17:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 17:20	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 17:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 17:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:20*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:20*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 02:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 02:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*12/12/22 15:31*	*12/14/22 02:06*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*12/12/22 15:31*	*12/14/22 02:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		4.95		mg/Kg			12/18/22 19:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-21, 0-0.5

Lab Sample ID: 880-22534-13
Matrix: Solid
Date Collected: 12/08/22 13:00
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 17:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 17:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 17:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 21:37*	*12/22/22 17:41*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 02:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 02:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*12/12/22 15:31*	*12/14/22 02:29*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 02:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			12/18/22 19:35	1

Client Sample ID: S-21, 0.5-1

Lab Sample ID: 880-22534-14
Matrix: Solid
Date Collected: 12/08/22 13:15
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 18:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/20/22 21:37	12/22/22 18:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/20/22 21:37	12/22/22 18:02	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		12/20/22 21:37	12/22/22 18:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/20/22 21:37	12/22/22 18:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/20/22 21:37	12/22/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-21, 0.5-1

Date Collected: 12/08/22 13:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-14
Matrix: Solid

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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 02:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 02:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 02:51*	*1*
o-Terphenyl (Surr)	*151*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 02:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**482**		4.95		mg/Kg			12/18/22 19:57	1

Client Sample ID: S-22, 0-0.5

Date Collected: 12/08/22 13:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-15
Matrix: Solid

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		12/20/22 21:37	12/22/22 18:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 18:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 18:23	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 18:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/22 21:37	12/22/22 18:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/22 21:37	12/22/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:23*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:23*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 03:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 03:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-22, 0-0.5

Lab Sample ID: 880-22534-15
Matrix: Solid
Date Collected: 12/08/22 13:30
Date Received: 12/09/22 08:55

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		12/12/22 15:31	12/14/22 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*152*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 03:14*	*1*
o-Terphenyl (Surr)	*165*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/14/22 03:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		4.98		mg/Kg			12/18/22 20:04	1

Client Sample ID: S-23, 0-0.5

Lab Sample ID: 880-22534-16
Matrix: Solid
Date Collected: 12/08/22 13:45
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 18:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 18:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 18:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 18:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/22 21:37	12/22/22 18:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/22 21:37	12/22/22 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 21:37*	*12/22/22 18:43*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 03:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*12/12/22 15:31*	*12/14/22 03:36*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*12/12/22 15:31*	*12/14/22 03:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		5.01		mg/Kg			12/18/22 20:12	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-23, 0.5-1

Lab Sample ID: 880-22534-17
Matrix: Solid
Date Collected: 12/08/22 14:00
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 19:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:04	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 19:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/22 21:37	12/22/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:04*	*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			12/22/22 20:06	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 03:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 03:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/12/22 15:31*	*12/14/22 03:59*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/12/22 15:31*	*12/14/22 03:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		5.00		mg/Kg			12/18/22 20:19	1

Client Sample ID: S-24, 0-0.5

Lab Sample ID: 880-22534-18
Matrix: Solid
Date Collected: 12/08/22 14:15
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 19:25	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/20/22 21:37	12/22/22 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 19:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/22 21:37	12/22/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-24, 0-0.5

Lab Sample ID: 880-22534-18
Matrix: Solid
Date Collected: 12/08/22 14:15
Date Received: 12/09/22 08:55

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			12/22/22 20:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**135**		50.0		mg/Kg			12/14/22 12:26	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		12/12/22 15:31	12/14/22 04:22	1
Diesel Range Organics (Over C10-C28)	**135**		50.0		mg/Kg		12/12/22 15:31	12/14/22 04:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/22 15:31	12/14/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/12/22 15:31*	*12/14/22 04:22*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*12/12/22 15:31*	*12/14/22 04:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**246**		4.99		mg/Kg			12/18/22 20:26	1

Client Sample ID: S-25, 0-0.5

Lab Sample ID: 880-22534-19
Matrix: Solid
Date Collected: 12/08/22 14:30
Date Received: 12/09/22 08:55

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		12/20/22 21:37	12/22/22 19:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:46	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		12/20/22 21:37	12/22/22 19:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/22 21:37	12/22/22 19:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/22 21:37	12/22/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:46*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/22 21:37*	*12/22/22 19:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/22 08:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**393**		49.9		mg/Kg			12/14/22 12:26	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		12/12/22 15:31	12/14/22 04:45	1
Diesel Range Organics (Over C10-C28)	**393**		49.9		mg/Kg		12/12/22 15:31	12/14/22 04:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-25, 0-0.5

Date Collected: 12/08/22 14:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-19
Matrix: Solid

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		12/12/22 15:31	12/14/22 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*12/12/22 15:31*	*12/14/22 04:45*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*12/12/22 15:31*	*12/14/22 04:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		4.96		mg/Kg			12/18/22 20:33	1

Client Sample ID: S-26, 0-0.5

Date Collected: 12/08/22 14:45
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-20
Matrix: Solid

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		12/20/22 21:37	12/22/22 20:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 20:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 20:06	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 20:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 20:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/20/22 21:37*	*12/22/22 20:06*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/22 21:37*	*12/22/22 20:06*	*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			12/23/22 08:21	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			12/14/22 12:26	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		12/12/22 15:31	12/14/22 05:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 05:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/22 15:31	12/14/22 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*12/12/22 15:31*	*12/14/22 05:08*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*12/12/22 15:31*	*12/14/22 05:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**652**		5.03		mg/Kg			12/18/22 20:40	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-22534-1	S-15, 0-0.5	109	91										
880-22534-1 MS	S-15, 0-0.5	105	90										
880-22534-1 MSD	S-15, 0-0.5	107	84										
880-22534-2	S-15, 0.5-1	117	99										
880-22534-3	S-16, 0-0.5	87	62 S1-										
880-22534-4	S-16, 0.5-1	116	94										
880-22534-5	S-17, 0-0.5	114	98										
880-22534-6	S-17, 0.5-1	114	96										
880-22534-7	S-18, 0-0.5	118	101										
880-22534-8	S-18, 0.5-1	122	100										
880-22534-9	S-19, 0-0.5	114	98										
880-22534-10	S-19, 0.5-1	113	98										
880-22534-11	S-20, 0-0.5	103	93										
880-22534-12	S-20, 0.5-1	82	78										
880-22534-13	S-21, 0-0.5	109	100										
880-22534-14	S-21, 0.5-1	110	105										
880-22534-15	S-22, 0-0.5	108	101										
880-22534-16	S-23, 0-0.5	108	101										
880-22534-17	S-23, 0.5-1	111	103										
880-22534-18	S-24, 0-0.5	110	105										
880-22534-19	S-25, 0-0.5	109	105										
880-22534-20	S-26, 0-0.5	104	105										
LCS 880-42358/1-A	Lab Control Sample	103	88										
LCSD 880-42358/2-A	Lab Control Sample Dup	104	88										
MB 880-42358/5-A	Method Blank	100	86										

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)										
880-22534-1	S-15, 0-0.5	128	141 S1+										
880-22534-1 MS	S-15, 0-0.5	102	103										
880-22534-1 MSD	S-15, 0-0.5	103	103										
880-22534-2	S-15, 0.5-1	117	132 S1+										
880-22534-3	S-16, 0-0.5	139 S1+	154 S1+										
880-22534-4	S-16, 0.5-1	144 S1+	158 S1+										
880-22534-5	S-17, 0-0.5	116	133 S1+										
880-22534-6	S-17, 0.5-1	111	127										
880-22534-7	S-18, 0-0.5	118	133 S1+										
880-22534-8	S-18, 0.5-1	118	132 S1+										
880-22534-9	S-19, 0-0.5	113	128										
880-22534-10	S-19, 0.5-1	126	141 S1+										
880-22534-11	S-20, 0-0.5	129	142 S1+										
880-22534-12	S-20, 0.5-1	111	127										

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

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)										
880-22534-13	S-21, 0-0.5	130	142 S1+										
880-22534-14	S-21, 0.5-1	140 S1+	151 S1+										
880-22534-15	S-22, 0-0.5	152 S1+	165 S1+										
880-22534-16	S-23, 0-0.5	113	127										
880-22534-17	S-23, 0.5-1	116	130										
880-22534-18	S-24, 0-0.5	117	125										
880-22534-19	S-25, 0-0.5	121	129										
880-22534-20	S-26, 0-0.5	106	118										
LCS 880-41663/2-A	Lab Control Sample	98	111										
LCSD 880-41663/3-A	Lab Control Sample Dup	99	109										
MB 880-41663/1-A	Method Blank	155 S1+	234 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42358/5-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42358

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 11:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/22 21:37	12/22/22 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/22 21:37	12/22/22 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:19*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:19*	*1*

Lab Sample ID: LCS 880-42358/1-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42358

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09232		mg/Kg		92	70 - 130		
Toluene			0.100	0.09631		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09860		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2170		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1078		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-42358/2-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42358

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08729		mg/Kg		87	70 - 130	6	35
Toluene			0.100	0.09017		mg/Kg		90	70 - 130	7	35
Ethylbenzene			0.100	0.09283		mg/Kg		93	70 - 130	6	35
m,p-Xylenes			0.200	0.2055		mg/Kg		103	70 - 130	5	35
o-Xylene			0.100	0.1032		mg/Kg		103	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-22534-1 MS
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: S-15, 0-0.5
Prep Type: Total/NA
Prep Batch: 42358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.101	0.07417		mg/Kg		74	70 - 130		
Toluene	<0.00202	U	0.101	0.07660		mg/Kg		76	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

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

Lab Sample ID: 880-22534-1 MS
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: S-15, 0-0.5
Prep Type: Total/NA
Prep Batch: 42358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.07497		mg/Kg		74	70 - 130
m,p-Xylenes	<0.00403	U	0.202	0.1607		mg/Kg		80	70 - 130
o-Xylene	<0.00202	U	0.101	0.08185		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-22534-1 MSD
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: S-15, 0-0.5
Prep Type: Total/NA
Prep Batch: 42358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0996	0.06574	F1	mg/Kg		66	70 - 130	12	35
Toluene	<0.00202	U	0.0996	0.07066		mg/Kg		70	70 - 130	8	35
Ethylbenzene	<0.00202	U	0.0996	0.06984		mg/Kg		70	70 - 130	7	35
m,p-Xylenes	<0.00403	U	0.199	0.1519		mg/Kg		76	70 - 130	6	35
o-Xylene	<0.00202	U	0.0996	0.07806		mg/Kg		78	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

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

Lab Sample ID: MB 880-41663/1-A
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41663

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		12/12/22 15:31	12/13/22 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 15:31	12/13/22 19:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 15:31	12/13/22 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*155*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 19:51*	*1*
o-Terphenyl (Surr)	*234*	*S1+*	*70 - 130*	*12/12/22 15:31*	*12/13/22 19:51*	*1*

Lab Sample ID: LCS 880-41663/2-A
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	866.5		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	921.2		mg/Kg		92	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-41663/2-A
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41663

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-41663/3-A
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41663

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	982.7		mg/Kg		98	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	919.4		mg/Kg		92	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-22534-1 MS
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: S-15, 0-0.5
Prep Type: Total/NA
Prep Batch: 41663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1017		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1163		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-22534-1 MSD
Matrix: Solid
Analysis Batch: 41695

Client Sample ID: S-15, 0-0.5
Prep Type: Total/NA
Prep Batch: 41663

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	<50.0	U	997	1042		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1168		mg/Kg		116	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	103		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41480/1-A
Matrix: Solid
Analysis Batch: 42034

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			12/18/22 17:04	1

Lab Sample ID: LCS 880-41480/2-A
Matrix: Solid
Analysis Batch: 42034

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.1		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-41480/3-A
Matrix: Solid
Analysis Batch: 42034

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	264.4		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-22534-1 MS
Matrix: Solid
Analysis Batch: 42034

Client Sample ID: S-15, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1020		252	1030	4	mg/Kg		2	90 - 110		

Lab Sample ID: 880-22534-1 MSD
Matrix: Solid
Analysis Batch: 42034

Client Sample ID: S-15, 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	1020		252	996.1	4	mg/Kg		-11	90 - 110	3	20

Lab Sample ID: 880-22534-11 MS
Matrix: Solid
Analysis Batch: 42034

Client Sample ID: S-20, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	807	F1	251	1111	F1	mg/Kg		122	90 - 110		

Lab Sample ID: 880-22534-11 MSD
Matrix: Solid
Analysis Batch: 42034

Client Sample ID: S-20, 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	807	F1	251	1110	F1	mg/Kg		121	90 - 110	0	20

Lab Sample ID: MB 880-41923/1-A
Matrix: Solid
Analysis Batch: 42049

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			12/19/22 21:05	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-41923/2-A
Matrix: Solid
Analysis Batch: 42049

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.6		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-41923/3-A
Matrix: Solid
Analysis Batch: 42049

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	237.1		mg/Kg		95	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

GC VOA

Prep Batch: 42358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	5035	
880-22534-2	S-15, 0.5-1	Total/NA	Solid	5035	
880-22534-3	S-16, 0-0.5	Total/NA	Solid	5035	
880-22534-4	S-16, 0.5-1	Total/NA	Solid	5035	
880-22534-5	S-17, 0-0.5	Total/NA	Solid	5035	
880-22534-6	S-17, 0.5-1	Total/NA	Solid	5035	
880-22534-7	S-18, 0-0.5	Total/NA	Solid	5035	
880-22534-8	S-18, 0.5-1	Total/NA	Solid	5035	
880-22534-9	S-19, 0-0.5	Total/NA	Solid	5035	
880-22534-10	S-19, 0.5-1	Total/NA	Solid	5035	
880-22534-11	S-20, 0-0.5	Total/NA	Solid	5035	
880-22534-12	S-20, 0.5-1	Total/NA	Solid	5035	
880-22534-13	S-21, 0-0.5	Total/NA	Solid	5035	
880-22534-14	S-21, 0.5-1	Total/NA	Solid	5035	
880-22534-15	S-22, 0-0.5	Total/NA	Solid	5035	
880-22534-16	S-23, 0-0.5	Total/NA	Solid	5035	
880-22534-17	S-23, 0.5-1	Total/NA	Solid	5035	
880-22534-18	S-24, 0-0.5	Total/NA	Solid	5035	
880-22534-19	S-25, 0-0.5	Total/NA	Solid	5035	
880-22534-20	S-26, 0-0.5	Total/NA	Solid	5035	
MB 880-42358/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42358/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42358/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22534-1 MS	S-15, 0-0.5	Total/NA	Solid	5035	
880-22534-1 MSD	S-15, 0-0.5	Total/NA	Solid	5035	

Analysis Batch: 42466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-2	S-15, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-3	S-16, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-4	S-16, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-5	S-17, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-6	S-17, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-7	S-18, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-8	S-18, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-9	S-19, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-10	S-19, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-11	S-20, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-12	S-20, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-13	S-21, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-14	S-21, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-15	S-22, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-16	S-23, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-17	S-23, 0.5-1	Total/NA	Solid	8021B	42358
880-22534-18	S-24, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-19	S-25, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-20	S-26, 0-0.5	Total/NA	Solid	8021B	42358
MB 880-42358/5-A	Method Blank	Total/NA	Solid	8021B	42358
LCS 880-42358/1-A	Lab Control Sample	Total/NA	Solid	8021B	42358
LCSD 880-42358/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42358

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 42466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1 MS	S-15, 0-0.5	Total/NA	Solid	8021B	42358
880-22534-1 MSD	S-15, 0-0.5	Total/NA	Solid	8021B	42358

Analysis Batch: 42551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-2	S-15, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-3	S-16, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-4	S-16, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-5	S-17, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-6	S-17, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-7	S-18, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-8	S-18, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-9	S-19, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-10	S-19, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-11	S-20, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-12	S-20, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-13	S-21, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-14	S-21, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-15	S-22, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-16	S-23, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-17	S-23, 0.5-1	Total/NA	Solid	Total BTEX	
880-22534-18	S-24, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-19	S-25, 0-0.5	Total/NA	Solid	Total BTEX	
880-22534-20	S-26, 0-0.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-2	S-15, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-3	S-16, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-4	S-16, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-5	S-17, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-6	S-17, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-7	S-18, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-8	S-18, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-9	S-19, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-10	S-19, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-11	S-20, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-12	S-20, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-13	S-21, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-14	S-21, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-15	S-22, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-16	S-23, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-17	S-23, 0.5-1	Total/NA	Solid	8015NM Prep	
880-22534-18	S-24, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-19	S-25, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-20	S-26, 0-0.5	Total/NA	Solid	8015NM Prep	
MB 880-41663/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Prep Batch: 41663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-41663/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22534-1 MS	S-15, 0-0.5	Total/NA	Solid	8015NM Prep	
880-22534-1 MSD	S-15, 0-0.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-2	S-15, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-3	S-16, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-4	S-16, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-5	S-17, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-6	S-17, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-7	S-18, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-8	S-18, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-9	S-19, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-10	S-19, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-11	S-20, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-12	S-20, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-13	S-21, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-14	S-21, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-15	S-22, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-16	S-23, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-17	S-23, 0.5-1	Total/NA	Solid	8015B NM	41663
880-22534-18	S-24, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-19	S-25, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-20	S-26, 0-0.5	Total/NA	Solid	8015B NM	41663
MB 880-41663/1-A	Method Blank	Total/NA	Solid	8015B NM	41663
LCS 880-41663/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41663
LCSD 880-41663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41663
880-22534-1 MS	S-15, 0-0.5	Total/NA	Solid	8015B NM	41663
880-22534-1 MSD	S-15, 0-0.5	Total/NA	Solid	8015B NM	41663

Analysis Batch: 41818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-2	S-15, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-3	S-16, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-4	S-16, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-5	S-17, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-6	S-17, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-7	S-18, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-8	S-18, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-9	S-19, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-10	S-19, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-11	S-20, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-12	S-20, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-13	S-21, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-14	S-21, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-15	S-22, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-16	S-23, 0-0.5	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 41818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-17	S-23, 0.5-1	Total/NA	Solid	8015 NM	
880-22534-18	S-24, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-19	S-25, 0-0.5	Total/NA	Solid	8015 NM	
880-22534-20	S-26, 0-0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Soluble	Solid	DI Leach	
880-22534-2	S-15, 0.5-1	Soluble	Solid	DI Leach	
880-22534-3	S-16, 0-0.5	Soluble	Solid	DI Leach	
880-22534-4	S-16, 0.5-1	Soluble	Solid	DI Leach	
880-22534-5	S-17, 0-0.5	Soluble	Solid	DI Leach	
880-22534-6	S-17, 0.5-1	Soluble	Solid	DI Leach	
880-22534-7	S-18, 0-0.5	Soluble	Solid	DI Leach	
880-22534-8	S-18, 0.5-1	Soluble	Solid	DI Leach	
880-22534-10	S-19, 0.5-1	Soluble	Solid	DI Leach	
880-22534-11	S-20, 0-0.5	Soluble	Solid	DI Leach	
880-22534-12	S-20, 0.5-1	Soluble	Solid	DI Leach	
880-22534-13	S-21, 0-0.5	Soluble	Solid	DI Leach	
880-22534-14	S-21, 0.5-1	Soluble	Solid	DI Leach	
880-22534-15	S-22, 0-0.5	Soluble	Solid	DI Leach	
880-22534-16	S-23, 0-0.5	Soluble	Solid	DI Leach	
880-22534-17	S-23, 0.5-1	Soluble	Solid	DI Leach	
880-22534-18	S-24, 0-0.5	Soluble	Solid	DI Leach	
880-22534-19	S-25, 0-0.5	Soluble	Solid	DI Leach	
880-22534-20	S-26, 0-0.5	Soluble	Solid	DI Leach	
MB 880-41480/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22534-1 MS	S-15, 0-0.5	Soluble	Solid	DI Leach	
880-22534-1 MSD	S-15, 0-0.5	Soluble	Solid	DI Leach	
880-22534-11 MS	S-20, 0-0.5	Soluble	Solid	DI Leach	
880-22534-11 MSD	S-20, 0-0.5	Soluble	Solid	DI Leach	

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-9	S-19, 0-0.5	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 42034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-1	S-15, 0-0.5	Soluble	Solid	300.0	41480
880-22534-2	S-15, 0.5-1	Soluble	Solid	300.0	41480
880-22534-3	S-16, 0-0.5	Soluble	Solid	300.0	41480
880-22534-4	S-16, 0.5-1	Soluble	Solid	300.0	41480
880-22534-5	S-17, 0-0.5	Soluble	Solid	300.0	41480
880-22534-6	S-17, 0.5-1	Soluble	Solid	300.0	41480

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 42034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-7	S-18, 0-0.5	Soluble	Solid	300.0	41480
880-22534-8	S-18, 0.5-1	Soluble	Solid	300.0	41480
880-22534-10	S-19, 0.5-1	Soluble	Solid	300.0	41480
880-22534-11	S-20, 0-0.5	Soluble	Solid	300.0	41480
880-22534-12	S-20, 0.5-1	Soluble	Solid	300.0	41480
880-22534-13	S-21, 0-0.5	Soluble	Solid	300.0	41480
880-22534-14	S-21, 0.5-1	Soluble	Solid	300.0	41480
880-22534-15	S-22, 0-0.5	Soluble	Solid	300.0	41480
880-22534-16	S-23, 0-0.5	Soluble	Solid	300.0	41480
880-22534-17	S-23, 0.5-1	Soluble	Solid	300.0	41480
880-22534-18	S-24, 0-0.5	Soluble	Solid	300.0	41480
880-22534-19	S-25, 0-0.5	Soluble	Solid	300.0	41480
880-22534-20	S-26, 0-0.5	Soluble	Solid	300.0	41480
MB 880-41480/1-A	Method Blank	Soluble	Solid	300.0	41480
LCS 880-41480/2-A	Lab Control Sample	Soluble	Solid	300.0	41480
LCSD 880-41480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41480
880-22534-1 MS	S-15, 0-0.5	Soluble	Solid	300.0	41480
880-22534-1 MSD	S-15, 0-0.5	Soluble	Solid	300.0	41480
880-22534-11 MS	S-20, 0-0.5	Soluble	Solid	300.0	41480
880-22534-11 MSD	S-20, 0-0.5	Soluble	Solid	300.0	41480

Analysis Batch: 42049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22534-9	S-19, 0-0.5	Soluble	Solid	300.0	41923
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-15, 0-0.5

Date Collected: 12/08/22 10:00
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-1

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 20:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 17:26	CH	EET MID

Client Sample ID: S-15, 0.5-1

Date Collected: 12/08/22 10:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-2

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 22:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 17:47	CH	EET MID

Client Sample ID: S-16, 0-0.5

Date Collected: 12/08/22 10:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-3

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 22:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 17:54	CH	EET MID

Client Sample ID: S-16, 0.5-1

Date Collected: 12/08/22 10:45
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-4

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-16, 0.5-1

Lab Sample ID: 880-22534-4
Matrix: Solid
Date Collected: 12/08/22 10:45
Date Received: 12/09/22 08:55

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			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 22:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:02	CH	EET MID

Client Sample ID: S-17, 0-0.5

Lab Sample ID: 880-22534-5
Matrix: Solid
Date Collected: 12/08/22 11:00
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:09	CH	EET MID

Client Sample ID: S-17, 0.5-1

Lab Sample ID: 880-22534-6
Matrix: Solid
Date Collected: 12/08/22 11:15
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 23:32	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:30	CH	EET MID

Client Sample ID: S-18, 0-0.5

Lab Sample ID: 880-22534-7
Matrix: Solid
Date Collected: 12/08/22 11:30
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/13/22 23:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-18, 0-0.5

Date Collected: 12/08/22 11:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-7

Matrix: Solid

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 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:38	CH	EET MID

Client Sample ID: S-18, 0.5-1

Date Collected: 12/08/22 11:45
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-8

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 00:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:45	CH	EET MID

Client Sample ID: S-19, 0-0.5

Date Collected: 12/08/22 12:00
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-9

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 23:05	CH	EET MID

Client Sample ID: S-19, 0.5-1

Date Collected: 12/08/22 12:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-10

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 01:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 18:59	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-20, 0-0.5

Date Collected: 12/08/22 12:30
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-11

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 01:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 19:07	CH	EET MID

Client Sample ID: S-20, 0.5-1

Date Collected: 12/08/22 12:45
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-12

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 17:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 19:28	CH	EET MID

Client Sample ID: S-21, 0-0.5

Date Collected: 12/08/22 13:00
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-13

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 02:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 19:35	CH	EET MID

Client Sample ID: S-21, 0.5-1

Date Collected: 12/08/22 13:15
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22534-14

Matrix: Solid

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-21, 0.5-1

Lab Sample ID: 880-22534-14
Matrix: Solid
Date Collected: 12/08/22 13:15
Date Received: 12/09/22 08:55

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			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 19:57	CH	EET MID

Client Sample ID: S-22, 0-0.5

Lab Sample ID: 880-22534-15
Matrix: Solid
Date Collected: 12/08/22 13:30
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:04	CH	EET MID

Client Sample ID: S-23, 0-0.5

Lab Sample ID: 880-22534-16
Matrix: Solid
Date Collected: 12/08/22 13:45
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 03:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:12	CH	EET MID

Client Sample ID: S-23, 0.5-1

Lab Sample ID: 880-22534-17
Matrix: Solid
Date Collected: 12/08/22 14:00
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 03:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Client Sample ID: S-23, 0.5-1

Lab Sample ID: 880-22534-17
Matrix: Solid
Date Collected: 12/08/22 14:00
Date Received: 12/09/22 08:55

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 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:19	CH	EET MID

Client Sample ID: S-24, 0-0.5

Lab Sample ID: 880-22534-18
Matrix: Solid
Date Collected: 12/08/22 14:15
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/22/22 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 04:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:26	CH	EET MID

Client Sample ID: S-25, 0-0.5

Lab Sample ID: 880-22534-19
Matrix: Solid
Date Collected: 12/08/22 14:30
Date Received: 12/09/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/23/22 08:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 04:45	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:33	CH	EET MID

Client Sample ID: S-26, 0-0.5

Lab Sample ID: 880-22534-20
Matrix: Solid
Date Collected: 12/08/22 14:45
Date Received: 12/09/22 08:55

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	42358	12/20/22 21:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/22/22 20:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42551	12/23/22 08:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41818	12/14/22 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41663	12/12/22 15:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41695	12/14/22 05:08	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41480	12/09/22 13:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42034	12/18/22 20:40	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Pliney Elder

Job ID: 880-22534-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22534-1	S-15, 0-0.5	Solid	12/08/22 10:00	12/09/22 08:55
880-22534-2	S-15, 0.5-1	Solid	12/08/22 10:15	12/09/22 08:55
880-22534-3	S-16, 0-0.5	Solid	12/08/22 10:30	12/09/22 08:55
880-22534-4	S-16, 0.5-1	Solid	12/08/22 10:45	12/09/22 08:55
880-22534-5	S-17, 0-0.5	Solid	12/08/22 11:00	12/09/22 08:55
880-22534-6	S-17, 0.5-1	Solid	12/08/22 11:15	12/09/22 08:55
880-22534-7	S-18, 0-0.5	Solid	12/08/22 11:30	12/09/22 08:55
880-22534-8	S-18, 0.5-1	Solid	12/08/22 11:45	12/09/22 08:55
880-22534-9	S-19, 0-0.5	Solid	12/08/22 12:00	12/09/22 08:55
880-22534-10	S-19, 0.5-1	Solid	12/08/22 12:15	12/09/22 08:55
880-22534-11	S-20, 0-0.5	Solid	12/08/22 12:30	12/09/22 08:55
880-22534-12	S-20, 0.5-1	Solid	12/08/22 12:45	12/09/22 08:55
880-22534-13	S-21, 0-0.5	Solid	12/08/22 13:00	12/09/22 08:55
880-22534-14	S-21, 0.5-1	Solid	12/08/22 13:15	12/09/22 08:55
880-22534-15	S-22, 0-0.5	Solid	12/08/22 13:30	12/09/22 08:55
880-22534-16	S-23, 0-0.5	Solid	12/08/22 13:45	12/09/22 08:55
880-22534-17	S-23, 0.5-1	Solid	12/08/22 14:00	12/09/22 08:55
880-22534-18	S-24, 0-0.5	Solid	12/08/22 14:15	12/09/22 08:55
880-22534-19	S-25, 0-0.5	Solid	12/08/22 14:30	12/09/22 08:55
880-22534-20	S-26, 0-0.5	Solid	12/08/22 14:45	12/09/22 08:55

Released to Imaging: 9/30/2024 4:19:02 PM
Received by OCD: 8/9/2024 11:39:35 AM

22534 No. 2434

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 12/9/2022 PAGE 1 OF 2
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Piney Eldo
LAI PROJECT #: 22-0107-02 COLLECTOR: JH & AG
Data Reported to

TRRP report? ☐ Yes ☒ No
TIME ZONE Time zone/State: MST / NM
S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-15, 0-0.5		12/8/22	1000	S	1				X		X		X	X	X																										X				20g
S-15, 0.5-1			1015																																										
S-16, 0-0.5			1030																																										
S-16, 0.5-1			1045																																										
S-17, 0-0.5			1100																																										
S-17, 0.5-1			1116																																										
S-18, 0-0.5			1130																																										
S-18, 0.5-1			1145																																										
S-19, 0-0.5			1200																																										
S-19, 0.5-1			1215																																										
S-20, 0-0.5			1230																																										
S-20, 0.5-1			1245																																										
S-21, 0-0.5			1300																																										
S-21, 0.5-1			1315																																										
S-22, 0-0.5			1330																																										
TOTAL																																												

880-22534 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	12/9/22 0855	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.1/3.8 THERM# JP8 -3C
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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22534 No. 2435

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 12/9/2022 PAGE 2 OF 2
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Piney Field
LAI PROJECT #: 22-0107-02 COLLECTOR: JH & AB

TRRP report? ☐ Yes ☒ No
TIME ZONE Time zone/State: MST / NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP - PEST ☐ HERB ☐ | TCLP VOC ☐ | TOTAL METALS (RCRA) ☐ | LEAD - TOTAL ☐ | Semi-VOC ☐ | RCI ☐ TOX ☐ | OTHER LIST ☐ | TDS ☐ TSS ☐ | D W 200.8 ☐ | pH ☐ FLASHPOINT ☐ | TCLP ☐ | % MOISTURE ☐ | EXPLOSIVES ☐ | HEXAVALENT CHROMIUM ☐ | CYANIDE ☐ | CHLORIDES ☒ | PECHLORATE ☐ | ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDES	FIELD NOTES
S-23, 0-0.5		12/8/22	1345	S	1				X		X	X	X	X		X	
S-23, 0.5-1		"	1400	"	"				"		"	"	"	"		"	
S-24, 0-0.5		"	1415	"	"				"		"	"	"	"		"	
S-25, 0-0.5		"	1430	"	"				"		"	"	"	"		"	
S-26, 0-0.5		"	1445	"	"				"		"	"	"	"		"	

Loc: 880
22534

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	12/9/22 0855	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22534-1
SDG Number: 22-0107-02

Login Number: 22534
List Number: 1
Creator: Rodriguez, Leticia

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	

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/1/2023 12:55:18 PM Revision 1

JOB DESCRIPTION

Pliney Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-23720-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

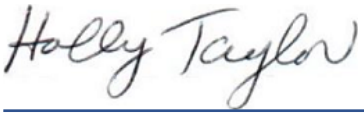
Released to Imaging: 9/30/2024 4:19:02 PM

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



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2/1/2023 12:55:18 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: Pliney Elder

Laboratory Job ID: 880-23720-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
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)

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Job ID: 880-23720-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23720-1

Revision
The report being provided is a revision of the original report sent on 1/30/2023. The report (revision 1) is being revised to change sample IDs per Robert Nelson (email).

Receipt
The samples were received on 1/16/2023 11:55 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 5.3º C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S20 1' (880-23720-1), S20 3' (880-23720-2), S20 5' (880-23720-3), S20 10' (880-23720-4), S20 13' (880-23720-5), S26 1' (880-23720-6), S26 3' (880-23720-7), S26 5' (880-23720-8), S26 10' (880-23720-9), S25 1' (880-23720-10), S25 3' (880-23720-11), S25 5' (880-23720-12), S25 10' (880-23720-13), S24 1' (880-23720-14), S24 3' (880-23720-15), S24 6' (880-23720-16), S15 1' (880-23720-17), S15 3' (880-23720-18), S15 5' (880-23720-19), S15 10' (880-23720-20), S4 1' (880-23720-21), S4 3' (880-23720-22), S4 5' (880-23720-23), S4 6' (880-23720-24), S5 1' (880-23720-25), S5 3' (880-23720-26), S5 5' (880-23720-27), S5 10' (880-23720-28), S11 1' (880-23720-29), S11 3' (880-23720-30), S11 5' (880-23720-31), S11 6' (880-23720-32), S9 1' (880-23720-33), S9 3' (880-23720-34), S9 5' (880-23720-35), S10 1' (880-23720-36), S10 3' (880-23720-37), S10 5' (880-23720-38), S10 7' (880-23720-39), S27 1' (880-23720-40), S27 3' (880-23720-41), S27 5' (880-23720-42), S28 1' (880-23720-43), S28 3' (880-23720-44), S28 5' (880-23720-45), S28 7' (880-23720-46), S29 1' (880-23720-47), S29 3' (880-23720-48), S29 5' (880-23720-49), S29 7' (880-23720-50), S30 1' (880-23720-51), S30 3' (880-23720-52), S30 5' (880-23720-53), S30 7' (880-23720-54), S31 1' (880-23720-55), S31 3' (880-23720-56), S31 5' (880-23720-57), S31 6.5' (880-23720-58), S32 1' (880-23720-59), S32 3' (880-23720-60), S32 5' (880-23720-61), S32 10' (880-23720-62), S33 1' (880-23720-63), S33 3' (880-23720-64), S33 5' (880-23720-65), S33 10' (880-23720-66), S37 1' (880-23720-67), S37 3' (880-23720-68), S37 5' (880-23720-69), S37 7' (880-23720-70) and West (880-23720-71).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44340 and 880-44342 and analytical batch 880-44418 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: S28 7' (880-23720-46) and S30 3' (880-23720-52). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S20 5' (880-23720-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S26 1' (880-23720-6), S24 3' (880-23720-15), S15 5' (880-23720-19) and S15 10' (880-23720-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44339 and analytical batch 880-44420 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 8021B: The continuing calibration verification (CCV) associated with batch 880-44420 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-44420/33).

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: Surrogate recovery for the following sample was outside control limits: (LCS 880-44313/2-A). Evidence of matrix

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Job ID: 880-23720-1 (Continued)

Laboratory: Eurofins Midland (Continued)

interferences is not obvious.

Method 8015B NM: The method blank for preparation batch 880-44313 and analytical batch 880-44307 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: The CCV was biased low, however another sample was analyzed in the 12 hours and was acceptable, therefore the data was qualified and reported.
(CCV 880-44519/47)

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44284 and analytical batch 880-44896 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 8015B NM: The continuing calibration verification (CCV) associated with batch 880-44896 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-44896/48).

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S28 5' (880-23720-45), S29 1' (880-23720-47), S29 3' (880-23720-48), S30 7' (880-23720-54), S31 3' (880-23720-56), S31 6.5' (880-23720-58), (LCS 880-44284/2-A) and (MB 880-44284/1-A). Evidence of matrix interferences is not obvious.

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 880-44242 and analytical batch 880-44495 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 880-44241 and 880-44241 and analytical batch 880-44476 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 880-44243 and 880-44243 and analytical batch 880-44496 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: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 1'

Date Collected: 01/12/23 12:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		01/19/23 13:11	01/20/23 12:56	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		01/19/23 13:11	01/20/23 12:56	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		01/19/23 13:11	01/20/23 12:56	1
m,p-Xylenes	<0.00403	U F1	0.00403		mg/Kg		01/19/23 13:11	01/20/23 12:56	1
o-Xylene	<0.00202	U F1 F2	0.00202		mg/Kg		01/19/23 13:11	01/20/23 12:56	1
Xylenes, Total	<0.00403	U F1 F2	0.00403		mg/Kg		01/19/23 13:11	01/20/23 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/19/23 13:11*	*01/20/23 12:56*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/19/23 13:11*	*01/20/23 12:56*	*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			01/23/23 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**210**		49.9		mg/Kg			01/24/23 14:29	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		01/18/23 14:39	01/23/23 13:07	1
Diesel Range Organics (Over C10-C28)	**210**	**F1**	49.9		mg/Kg		01/18/23 14:39	01/23/23 13:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*01/18/23 14:39*	*01/23/23 13:07*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*01/18/23 14:39*	*01/23/23 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2010**	**F1**	25.1		mg/Kg			01/20/23 14:06	5

Client Sample ID: S20 3'

Date Collected: 01/12/23 12:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-2

Matrix: Solid

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		01/19/23 13:11	01/20/23 13:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 13:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/19/23 13:11*	*01/20/23 13:22*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/19/23 13:11*	*01/20/23 13:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 3'

Date Collected: 01/12/23 12:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-2

Matrix: Solid

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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 14:39	01/23/23 14:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 14:39	01/23/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/18/23 14:39*	*01/23/23 14:14*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/18/23 14:39*	*01/23/23 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**		4.97		mg/Kg			01/20/23 14:25	1

Client Sample ID: S20 5'

Date Collected: 01/12/23 12:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-3

Matrix: Solid

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		01/19/23 13:11	01/20/23 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*01/19/23 13:11*	*01/20/23 13:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/19/23 13:11*	*01/20/23 13:49*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 14:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 5'

Date Collected: 01/12/23 12:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*75*		*70 - 130*	*01/18/23 14:39*	*01/23/23 14:37*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/18/23 14:39*	*01/23/23 14:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1870**		25.0		mg/Kg			01/20/23 14:31	5

Client Sample ID: S20 10'

Date Collected: 01/12/23 12:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-4

Matrix: Solid

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		01/19/23 13:11	01/20/23 14:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 14:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 14:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 14:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 14:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/19/23 13:11*	*01/20/23 14:15*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*01/19/23 13:11*	*01/20/23 14:15*	*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			01/20/23 14:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/24/23 14:29	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		01/18/23 14:39	01/23/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 14:39	01/23/23 15:00	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 14:39	01/23/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*40*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 15:00*	*1*
o-Terphenyl (Surr)	*35*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 15:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**757**		5.05		mg/Kg			01/20/23 14:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 13'

Date Collected: 01/12/23 12:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-5

Matrix: Solid

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		01/19/23 13:11	01/20/23 14:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 14:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 14:41	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 14:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 14:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/19/23 13:11*	*01/20/23 14:41*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/19/23 13:11*	*01/20/23 14:41*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 15:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 15:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*61*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 15:23*	*1*
o-Terphenyl (Surr)	*54*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**		5.04		mg/Kg			01/20/23 14:43	1

Client Sample ID: S26 1'

Date Collected: 01/12/23 13:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-6

Matrix: Solid

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		01/19/23 13:11	01/20/23 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*01/19/23 13:11*	*01/20/23 15:07*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:11*	*01/20/23 15:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S26 1'

Date Collected: 01/12/23 13:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-6

Matrix: Solid

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			01/23/23 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.2**		50.0		mg/Kg			01/24/23 14:29	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		01/18/23 14:39	01/23/23 15:46	1
Diesel Range Organics (Over C10-C28)	**60.2**		50.0		mg/Kg		01/18/23 14:39	01/23/23 15:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*01/18/23 14:39*	*01/23/23 15:46*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/18/23 14:39*	*01/23/23 15:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2040**		25.0		mg/Kg			01/20/23 15:02	5

Client Sample ID: S26 3'

Date Collected: 01/12/23 13:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-7

Matrix: Solid

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		01/19/23 13:11	01/20/23 15:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:33	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 15:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 15:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/19/23 13:11*	*01/20/23 15:33*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/19/23 13:11*	*01/20/23 15:33*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 16:09	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S26 3'

Date Collected: 01/12/23 13:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*01/18/23 14:39*	*01/23/23 16:09*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/18/23 14:39*	*01/23/23 16:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.6**		5.00		mg/Kg			01/20/23 15:08	1

Client Sample ID: S26 5'

Date Collected: 01/12/23 13:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-8

Matrix: Solid

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		01/19/23 13:11	01/20/23 15:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:11	01/20/23 15:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:11	01/20/23 15:59	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/19/23 13:11	01/20/23 15:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:11	01/20/23 15:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/23 13:11	01/20/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/19/23 13:11*	*01/20/23 15:59*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/19/23 13:11*	*01/20/23 15:59*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 16:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 16:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*55*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 16:33*	*1*
o-Terphenyl (Surr)	*52*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.5**		5.03		mg/Kg			01/20/23 15:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S26 10'

Date Collected: 01/12/23 13:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-9

Matrix: Solid

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		01/19/23 13:11	01/20/23 16:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 16:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 16:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 16:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 16:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/19/23 13:11*	*01/20/23 16:25*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:11*	*01/20/23 16:25*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*58*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 16:56*	*1*
o-Terphenyl (Surr)	*57*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 16:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.62**		5.02		mg/Kg			01/20/23 15:20	1

Client Sample ID: S25 1'

Date Collected: 01/12/23 13:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-10

Matrix: Solid

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		01/19/23 13:11	01/20/23 17:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 17:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 17:34	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 17:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 17:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*01/19/23 13:11*	*01/20/23 17:34*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/19/23 13:11*	*01/20/23 17:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S25 1'

Date Collected: 01/12/23 13:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-10

Matrix: Solid

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			01/23/23 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**157**		49.9		mg/Kg			01/24/23 14:29	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		01/18/23 14:39	01/23/23 17:19	1
Diesel Range Organics (Over C10-C28)	**157**		49.9		mg/Kg		01/18/23 14:39	01/23/23 17:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 17:19*	*1*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		24.9		mg/Kg			01/20/23 15:26	5

Client Sample ID: S25 3'

Date Collected: 01/12/23 13:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-11

Matrix: Solid

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		01/19/23 13:11	01/20/23 18:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 18:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 18:53	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 18:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 18:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/19/23 13:11*	*01/20/23 18:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/19/23 13:11*	*01/20/23 18:53*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 18:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S25 3'

Date Collected: 01/12/23 13:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/18/23 14:39*	*01/23/23 18:05*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/18/23 14:39*	*01/23/23 18:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**	**F1**	4.96		mg/Kg			01/20/23 15:32	1

Client Sample ID: S25 5'

Date Collected: 01/12/23 13:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-12

Matrix: Solid

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		01/19/23 13:11	01/20/23 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 19:19	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 19:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/19/23 13:11*	*01/20/23 19:19*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*01/19/23 13:11*	*01/20/23 19:19*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 18:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/18/23 14:39*	*01/23/23 18:28*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/18/23 14:39*	*01/23/23 18:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.3**		5.04		mg/Kg			01/20/23 15:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S25 10'

Date Collected: 01/12/23 13:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-13

Matrix: Solid

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		01/19/23 13:11	01/20/23 19:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/19/23 13:11	01/20/23 19:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/19/23 13:11	01/20/23 19:46	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/19/23 13:11	01/20/23 19:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/19/23 13:11	01/20/23 19:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/19/23 13:11	01/20/23 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/19/23 13:11*	*01/20/23 19:46*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/19/23 13:11*	*01/20/23 19:46*	*1*

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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 18:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*59*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 18:51*	*1*
o-Terphenyl (Surr)	*55*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.2**		4.97		mg/Kg			01/20/23 15:57	1

Client Sample ID: S24 1'

Date Collected: 01/12/23 14:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-14

Matrix: Solid

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		01/19/23 13:11	01/20/23 20:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 20:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 20:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 20:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 20:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/19/23 13:11*	*01/20/23 20:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/19/23 13:11*	*01/20/23 20:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S24 1'

Date Collected: 01/12/23 14:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-14

Matrix: Solid

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			01/23/23 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**317**		49.9		mg/Kg			01/24/23 14:29	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		01/18/23 14:39	01/23/23 19:14	1
Diesel Range Organics (Over C10-C28)	**317**		49.9		mg/Kg		01/18/23 14:39	01/23/23 19:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*01/18/23 14:39*	*01/23/23 19:14*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/18/23 14:39*	*01/23/23 19:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		25.2		mg/Kg			01/20/23 16:15	5

Client Sample ID: S24 3'

Date Collected: 01/12/23 14:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-15

Matrix: Solid

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		01/19/23 13:11	01/20/23 20:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 20:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 20:39	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 20:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 20:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:11	01/20/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/19/23 13:11*	*01/20/23 20:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/19/23 13:11*	*01/20/23 20:39*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 19:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 19:38	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S24 3'

Date Collected: 01/12/23 14:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*55*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 19:38*	*1*
o-Terphenyl (Surr)	*54*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		5.00		mg/Kg			01/20/23 16:22	1

Client Sample ID: S24 6'

Date Collected: 01/12/23 14:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-16

Matrix: Solid

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		01/19/23 13:11	01/20/23 21:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:05*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:05*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 20:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 20:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*42*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 20:03*	*1*
o-Terphenyl (Surr)	*37*	*S1-*	*70 - 130*	*01/18/23 14:39*	*01/23/23 20:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.0**		4.98		mg/Kg			01/20/23 16:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S15 1'

Date Collected: 01/12/23 14:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-17

Matrix: Solid

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		01/19/23 13:11	01/20/23 21:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:31*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:31*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/18/23 14:39*	*01/23/23 20:25*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/18/23 14:39*	*01/23/23 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**667**		4.97		mg/Kg			01/20/23 16:34	1

Client Sample ID: S15 3'

Date Collected: 01/12/23 14:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-18

Matrix: Solid

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		01/19/23 13:11	01/20/23 21:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 21:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:57*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/19/23 13:11*	*01/20/23 21:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S15 3'
Date Collected: 01/12/23 14:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-18
Matrix: Solid

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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 20:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 20:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*01/18/23 14:39*	*01/23/23 20:48*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/18/23 14:39*	*01/23/23 20:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		5.02		mg/Kg			01/20/23 16:40	1

Client Sample ID: S15 5'
Date Collected: 01/12/23 14:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-19
Matrix: Solid

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		01/19/23 13:11	01/20/23 22:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 22:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 22:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 22:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:11	01/20/23 22:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:11	01/20/23 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*01/19/23 13:11*	*01/20/23 22:24*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:11*	*01/20/23 22:24*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 21:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 21:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S15 5'

Date Collected: 01/12/23 14:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:39	01/23/23 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/18/23 14:39*	*01/23/23 21:10*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*01/18/23 14:39*	*01/23/23 21:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.4**		5.01		mg/Kg			01/20/23 16:46	1

Client Sample ID: S15 10'

Date Collected: 01/12/23 14:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-20
Matrix: Solid

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		01/19/23 13:11	01/20/23 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 22:50	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 22:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 22:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:11	01/20/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*01/19/23 13:11*	*01/20/23 22:50*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/19/23 13:11*	*01/20/23 22:50*	*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			01/23/23 15:24	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			01/24/23 14:29	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		01/18/23 14:39	01/23/23 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 21:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/18/23 14:39*	*01/23/23 21:32*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*01/18/23 14:39*	*01/23/23 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		4.98		mg/Kg			01/20/23 16:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S4 1'

Date Collected: 01/12/23 15:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F2 F1	0.00201		mg/Kg		01/19/23 13:13	01/21/23 00:48	1
Toluene	<0.00201	U F2 F1	0.00201		mg/Kg		01/19/23 13:13	01/21/23 00:48	1
Ethylbenzene	<0.00201	U F2 F1	0.00201		mg/Kg		01/19/23 13:13	01/21/23 00:48	1
m,p-Xylenes	<0.00402	U F2 F1	0.00402		mg/Kg		01/19/23 13:13	01/21/23 00:48	1
o-Xylene	<0.00201	U F2 F1	0.00201		mg/Kg		01/19/23 13:13	01/21/23 00:48	1
Xylenes, Total	<0.00402	U F2 F1	0.00402		mg/Kg		01/19/23 13:13	01/21/23 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:13*	*01/21/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/19/23 13:13*	*01/21/23 00:48*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/23/23 23:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/23/23 23:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/23/23 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*01/18/23 14:42*	*01/23/23 23:22*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*01/18/23 14:42*	*01/23/23 23:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**	**F1**	25.2		mg/Kg			01/20/23 13:08	5

Client Sample ID: S4 3'

Date Collected: 01/12/23 15:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-22

Matrix: Solid

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		01/19/23 13:13	01/21/23 01:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 01:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:08*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S4 3'

Date Collected: 01/12/23 15:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-22

Matrix: Solid

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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 00:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 14:42	01/24/23 00:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 14:42	01/24/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*01/18/23 14:42*	*01/24/23 00:26*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*01/18/23 14:42*	*01/24/23 00:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**483**		5.00		mg/Kg			01/20/23 13:26	1

Client Sample ID: S4 5'

Date Collected: 01/12/23 15:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-23

Matrix: Solid

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		01/19/23 13:13	01/21/23 01:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 01:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 01:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:29*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:29*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 00:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S4 5'

Date Collected: 01/12/23 15:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/18/23 14:42*	*01/24/23 00:48*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/18/23 14:42*	*01/24/23 00:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**591**		4.97		mg/Kg			01/20/23 13:32	1

Client Sample ID: S4 6'

Date Collected: 01/12/23 15:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-24

Matrix: Solid

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		01/19/23 13:13	01/21/23 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 01:49	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 01:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:49*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:13*	*01/21/23 01:49*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 01:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 14:42	01/24/23 01:09	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 14:42	01/24/23 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:09*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		5.05		mg/Kg			01/20/23 13:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S5 1'

Date Collected: 01/12/23 15:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-25

Matrix: Solid

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		01/19/23 13:13	01/21/23 02:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 02:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:10*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:10*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:30*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		4.99		mg/Kg			01/20/23 13:43	1

Client Sample ID: S5 3'

Date Collected: 01/12/23 15:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-26

Matrix: Solid

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		01/19/23 13:13	01/21/23 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 02:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 02:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 02:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:30*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S5 3'

Date Collected: 01/12/23 15:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-26

Matrix: Solid

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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 01:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 01:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:52*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*01/18/23 14:42*	*01/24/23 01:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.9**		5.01		mg/Kg			01/20/23 14:01	1

Client Sample ID: S5 5'

Date Collected: 01/12/23 15:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-27

Matrix: Solid

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		01/19/23 13:13	01/21/23 02:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 02:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 02:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:51*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/19/23 13:13*	*01/21/23 02:51*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 02:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 02:13	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S5 5'

Date Collected: 01/12/23 15:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:13*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.3**		5.00		mg/Kg			01/20/23 14:07	1

Client Sample ID: S5 10'

Date Collected: 01/12/23 15:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-28

Matrix: Solid

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		01/19/23 13:13	01/21/23 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:11	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:11*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:11*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 02:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:34*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		5.02		mg/Kg			01/20/23 14:13	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S11 1'

Date Collected: 01/12/23 16:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-29

Matrix: Solid

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		01/19/23 13:13	01/21/23 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:31	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 03:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:31*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:31*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 02:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:56*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/18/23 14:42*	*01/24/23 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2310**		50.1		mg/Kg			01/23/23 13:54	10

Client Sample ID: S11 3'

Date Collected: 01/12/23 16:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-30

Matrix: Solid

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		01/19/23 13:13	01/21/23 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 03:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 03:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 03:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:52*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:13*	*01/21/23 03:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S11 3'

Date Collected: 01/12/23 16:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-30

Matrix: Solid

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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 03:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 03:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*01/18/23 14:42*	*01/24/23 03:18*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*01/18/23 14:42*	*01/24/23 03:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**266**		5.00		mg/Kg			01/20/23 14:24	1

Client Sample ID: S11 5'

Date Collected: 01/12/23 16:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-31

Matrix: Solid

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		01/19/23 13:13	01/21/23 05:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 05:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 05:42	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 05:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 05:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/19/23 13:13*	*01/21/23 05:42*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/19/23 13:13*	*01/21/23 05:42*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 04:01	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S11 5'

Date Collected: 01/12/23 16:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:01*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.2**		5.00		mg/Kg			01/20/23 14:30	1

Client Sample ID: S11 6'

Date Collected: 01/12/23 16:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-32

Matrix: Solid

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		01/19/23 13:13	01/21/23 06:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:13	01/21/23 06:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:13	01/21/23 06:03	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/19/23 13:13	01/21/23 06:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:13	01/21/23 06:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/23 13:13	01/21/23 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:03*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:03*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 04:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:22*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.02		mg/Kg			01/20/23 15:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S9 1'

Date Collected: 01/12/23 16:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-33
Matrix: Solid

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		01/19/23 13:13	01/21/23 06:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 06:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 06:23	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 06:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 06:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:23*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:23*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 04:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:44*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/18/23 14:42*	*01/24/23 04:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		5.00		mg/Kg			01/20/23 14:53	1

Client Sample ID: S9 3'

Date Collected: 01/12/23 16:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-34
Matrix: Solid

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		01/19/23 13:13	01/21/23 06:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 06:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 06:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 06:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 06:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:43*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/19/23 13:13*	*01/21/23 06:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S9 3'

Date Collected: 01/12/23 16:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-34

Matrix: Solid

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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 05:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:05*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		4.98		mg/Kg			01/20/23 15:34	1

Client Sample ID: S9 5'

Date Collected: 01/12/23 16:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-35

Matrix: Solid

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		01/19/23 13:13	01/21/23 07:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 07:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 07:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 07:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 07:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:04*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:04*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 05:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S9 5'

Date Collected: 01/12/23 16:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:26*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.1**		4.95		mg/Kg			01/20/23 15:39	1

Client Sample ID: S10 1'

Date Collected: 01/12/23 16:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-36
Matrix: Solid

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		01/19/23 13:13	01/21/23 07:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 07:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:13	01/21/23 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:24*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:24*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:47*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/18/23 14:42*	*01/24/23 05:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**484**		5.00		mg/Kg			01/20/23 15:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S10 3'

Date Collected: 01/12/23 16:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-37

Matrix: Solid

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		01/19/23 13:13	01/21/23 07:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:45	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 07:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:13	01/21/23 07:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:13	01/21/23 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:45*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:13*	*01/21/23 07:45*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 06:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 06:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/24/23 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/18/23 14:42*	*01/24/23 06:09*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/18/23 14:42*	*01/24/23 06:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.0**		4.99		mg/Kg			01/20/23 15:51	1

Client Sample ID: S10 5'

Date Collected: 01/12/23 16:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-38

Matrix: Solid

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		01/19/23 13:13	01/21/23 08:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:13	01/21/23 08:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:13	01/21/23 08:05	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/19/23 13:13	01/21/23 08:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:13	01/21/23 08:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/19/23 13:13	01/21/23 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:05*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S10 5'

Date Collected: 01/12/23 16:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-38

Matrix: Solid

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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 06:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 06:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 06:32*	*1*
o-Terphenyl (Surr)	*64*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 06:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.9**		5.01		mg/Kg			01/20/23 15:57	1

Client Sample ID: S10 7'

Date Collected: 01/12/23 17:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-39

Matrix: Solid

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		01/19/23 13:13	01/21/23 08:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 08:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:26*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:26*	*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			01/23/23 12:52	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			01/24/23 14:29	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		01/18/23 14:42	01/24/23 06:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 06:56	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S10 7'

Date Collected: 01/12/23 17:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-39

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 14:42	01/24/23 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*24*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 06:56*	*1*
o-Terphenyl (Surr)	*16*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 06:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.8**		4.97		mg/Kg			01/20/23 16:03	1

Client Sample ID: S27 1'

Date Collected: 01/13/23 07:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-40

Matrix: Solid

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		01/19/23 13:13	01/21/23 08:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 08:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:13	01/21/23 08:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:13	01/21/23 08:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:47*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/19/23 13:13*	*01/21/23 08:47*	*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			01/23/23 12:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**388**		50.0		mg/Kg			01/24/23 14:29	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		01/18/23 14:42	01/24/23 07:19	1
Diesel Range Organics (Over C10-C28)	**253**		50.0		mg/Kg		01/18/23 14:42	01/24/23 07:19	1
Oll Range Organics (Over C28-C36)	**135**		50.0		mg/Kg		01/18/23 14:42	01/24/23 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*41*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 07:19*	*1*
o-Terphenyl (Surr)	*36*	*S1-*	*70 - 130*	*01/18/23 14:42*	*01/24/23 07:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**324**		4.98		mg/Kg			01/20/23 16:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S27 3'

Date Collected: 01/13/23 07:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-41

Matrix: Solid

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		01/19/23 13:15	01/20/23 17:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/20/23 17:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/20/23 17:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/19/23 13:15	01/20/23 17:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/20/23 17:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/23 13:15	01/20/23 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*01/19/23 13:15*	*01/20/23 17:33*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/19/23 13:15*	*01/20/23 17:33*	*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			01/23/23 13:07	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			01/30/23 10:22	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 F2 F1	49.9		mg/Kg		01/18/23 15:18	01/28/23 03:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U F2 F1	49.9		mg/Kg		01/18/23 15:18	01/28/23 03:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*01/18/23 15:18*	*01/28/23 03:13*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/18/23 15:18*	*01/28/23 03:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**	**F1**	5.03		mg/Kg			01/20/23 17:42	1

Client Sample ID: S27 5'

Date Collected: 01/13/23 07:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-42

Matrix: Solid

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		01/19/23 13:15	01/20/23 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 17:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/19/23 13:15*	*01/20/23 17:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/19/23 13:15*	*01/20/23 17:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S27 5'

Date Collected: 01/13/23 07:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-42
Matrix: Solid

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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 04:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 15:18	01/28/23 04:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 15:18	01/28/23 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*01/18/23 15:18*	*01/28/23 04:24*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*01/18/23 15:18*	*01/28/23 04:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		5.00		mg/Kg			01/20/23 18:00	1

Client Sample ID: S28 1'

Date Collected: 01/13/23 07:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-43
Matrix: Solid

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		01/19/23 13:15	01/20/23 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:14	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:14*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:14*	*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			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**358**		49.9		mg/Kg			01/30/23 10:22	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		01/18/23 15:18	01/28/23 04:47	1
Diesel Range Organics (Over C10-C28)	**358**		49.9		mg/Kg		01/18/23 15:18	01/28/23 04:47	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S28 1'

Date Collected: 01/13/23 07:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-43

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*01/18/23 15:18*	*01/28/23 04:47*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/18/23 15:18*	*01/28/23 04:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**952**		4.97		mg/Kg			01/20/23 18:06	1

Client Sample ID: S28 3'

Date Collected: 01/13/23 07:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-44

Matrix: Solid

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		01/19/23 13:15	01/20/23 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 18:34	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 18:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:34*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:34*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/18/23 15:18	01/28/23 05:09	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/18/23 15:18	01/28/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*01/18/23 15:18*	*01/28/23 05:09*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*01/18/23 15:18*	*01/28/23 05:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		5.05		mg/Kg			01/20/23 18:12	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S28 5'

Date Collected: 01/13/23 07:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-45

Matrix: Solid

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		01/19/23 13:15	01/20/23 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:55*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/19/23 13:15*	*01/20/23 18:55*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 05:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 05:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 05:30*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*01/18/23 15:18*	*01/28/23 05:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		4.99		mg/Kg			01/20/23 18:18	1

Client Sample ID: S28 7'

Date Collected: 01/13/23 07:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-46

Matrix: Solid

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		01/19/23 13:15	01/20/23 19:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 19:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/19/23 13:15*	*01/20/23 19:15*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/19/23 13:15*	*01/20/23 19:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S28 7'

Date Collected: 01/13/23 07:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-46
Matrix: Solid

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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 05:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 05:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*01/18/23 15:18*	*01/28/23 05:51*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*01/18/23 15:18*	*01/28/23 05:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.01		mg/Kg			01/20/23 18:37	1

Client Sample ID: S29 1'

Date Collected: 01/13/23 07:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-47
Matrix: Solid

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		01/19/23 13:15	01/20/23 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 19:36	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:15	01/20/23 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 19:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:15	01/20/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/19/23 13:15*	*01/20/23 19:36*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/19/23 13:15*	*01/20/23 19:36*	*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			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**101**		50.0		mg/Kg			01/30/23 10:22	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		01/18/23 15:18	01/28/23 06:13	1
Diesel Range Organics (Over C10-C28)	**101**		50.0		mg/Kg		01/18/23 15:18	01/28/23 06:13	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S29 1'

Date Collected: 01/13/23 07:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-47

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 06:13*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 06:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		5.00		mg/Kg			01/20/23 18:43	1

Client Sample ID: S29 3'

Date Collected: 01/13/23 07:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-48

Matrix: Solid

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		01/19/23 13:15	01/20/23 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 19:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 19:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:15*	*01/20/23 19:56*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/19/23 13:15*	*01/20/23 19:56*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 06:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 06:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 06:34*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 06:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		5.03		mg/Kg			01/20/23 18:49	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S29 5'

Date Collected: 01/13/23 07:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-49

Matrix: Solid

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		01/19/23 13:15	01/20/23 20:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 20:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 20:17	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 20:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 20:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:15*	*01/20/23 20:17*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/19/23 13:15*	*01/20/23 20:17*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 06:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 06:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*01/18/23 15:18*	*01/28/23 06:56*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*01/18/23 15:18*	*01/28/23 06:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**399**		5.01		mg/Kg			01/20/23 18:55	1

Client Sample ID: S29 7'

Date Collected: 01/13/23 07:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-50

Matrix: Solid

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		01/19/23 13:15	01/20/23 20:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 20:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 20:37	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 20:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 20:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*01/19/23 13:15*	*01/20/23 20:37*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/19/23 13:15*	*01/20/23 20:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S29 7'

Date Collected: 01/13/23 07:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-50

Matrix: Solid

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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 07:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 07:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*01/18/23 15:18*	*01/28/23 07:19*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*01/18/23 15:18*	*01/28/23 07:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		5.00		mg/Kg			01/20/23 19:02	1

Client Sample ID: S30 1'

Date Collected: 01/13/23 07:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-51

Matrix: Solid

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		01/19/23 13:15	01/20/23 22:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 22:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*01/19/23 13:15*	*01/20/23 22:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/19/23 13:15*	*01/20/23 22:00*	*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			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**156**		50.0		mg/Kg			01/30/23 10:22	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		01/18/23 15:18	01/28/23 08:06	1
Diesel Range Organics (Over C10-C28)	**156**		50.0		mg/Kg		01/18/23 15:18	01/28/23 08:06	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S30 1'

Date Collected: 01/13/23 07:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-51

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:06*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1320**	**F1**	25.0		mg/Kg			01/20/23 19:08	5

Client Sample ID: S30 3'

Date Collected: 01/13/23 08:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-52

Matrix: Solid

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		01/19/23 13:15	01/20/23 22:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 22:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 22:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/19/23 13:15*	*01/20/23 22:20*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/19/23 13:15*	*01/20/23 22:20*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 08:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 08:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:29*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		5.04		mg/Kg			01/20/23 19:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S30 5'

Date Collected: 01/13/23 08:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-53

Matrix: Solid

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		01/19/23 13:15	01/20/23 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 22:41	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 22:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:15	01/20/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:15*	*01/20/23 22:41*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/19/23 13:15*	*01/20/23 22:41*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:51*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*01/18/23 15:18*	*01/28/23 08:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		5.00		mg/Kg			01/20/23 19:32	1

Client Sample ID: S30 7'

Date Collected: 01/13/23 08:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-54

Matrix: Solid

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		01/19/23 13:15	01/20/23 23:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:01*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S30 7'

Date Collected: 01/13/23 08:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-54
Matrix: Solid

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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 09:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 09:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 09:14*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*01/18/23 15:18*	*01/28/23 09:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		4.98		mg/Kg			01/20/23 19:51	1

Client Sample ID: S31 1'

Date Collected: 01/13/23 08:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-55
Matrix: Solid

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		01/19/23 13:15	01/20/23 23:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:22*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:22*	*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			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.9**		49.9		mg/Kg			01/30/23 10:22	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		01/18/23 15:18	01/28/23 09:36	1
Diesel Range Organics (Over C10-C28)	**57.9**		49.9		mg/Kg		01/18/23 15:18	01/28/23 09:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S31 1'

Date Collected: 01/13/23 08:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-55

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*01/18/23 15:18*	*01/28/23 09:36*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*01/18/23 15:18*	*01/28/23 09:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		4.99		mg/Kg			01/20/23 19:57	1

Client Sample ID: S31 3'

Date Collected: 01/13/23 08:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-56

Matrix: Solid

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		01/19/23 13:15	01/20/23 23:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/20/23 23:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/20/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:42*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/19/23 13:15*	*01/20/23 23:42*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 09:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 09:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 09:59*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*01/18/23 15:18*	*01/28/23 09:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.3**		5.00		mg/Kg			01/20/23 20:03	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S31 5'

Date Collected: 01/13/23 08:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-57

Matrix: Solid

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		01/19/23 13:15	01/21/23 00:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/21/23 00:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/21/23 00:03	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/19/23 13:15	01/21/23 00:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:15	01/21/23 00:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/23 13:15	01/21/23 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:03*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:03*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 10:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 10:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*01/18/23 15:18*	*01/28/23 10:20*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*01/18/23 15:18*	*01/28/23 10:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.2**		4.99		mg/Kg			01/20/23 20:09	1

Client Sample ID: S31 6.5'

Date Collected: 01/13/23 08:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-58

Matrix: Solid

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		01/19/23 13:15	01/21/23 00:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:15	01/21/23 00:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:15	01/21/23 00:23	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/19/23 13:15	01/21/23 00:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/19/23 13:15	01/21/23 00:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/19/23 13:15	01/21/23 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:23*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S31 6.5'

Lab Sample ID: 880-23720-58
Matrix: Solid
Date Collected: 01/13/23 08:30
Date Received: 01/16/23 11:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 10:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 10:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*01/18/23 15:18*	*01/28/23 10:44*	*1*
o-Terphenyl (Surr)	*68*	*S1-*	*70 - 130*	*01/18/23 15:18*	*01/28/23 10:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.1**		5.01		mg/Kg			01/20/23 20:15	1

Client Sample ID: S32 1'

Lab Sample ID: 880-23720-59
Matrix: Solid
Date Collected: 01/13/23 08:35
Date Received: 01/16/23 11:55

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		01/19/23 13:15	01/21/23 00:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 00:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 00:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/21/23 00:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 00:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/21/23 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:44*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:15*	*01/21/23 00:44*	*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			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**83.9**		49.9		mg/Kg			01/30/23 10:22	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		01/18/23 15:18	01/28/23 11:08	1
Diesel Range Organics (Over C10-C28)	**83.9**		49.9		mg/Kg		01/18/23 15:18	01/28/23 11:08	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S32 1'

Date Collected: 01/13/23 08:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-59

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/18/23 15:18	01/28/23 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*01/18/23 15:18*	*01/28/23 11:08*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*01/18/23 15:18*	*01/28/23 11:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		24.9		mg/Kg			01/20/23 20:22	5

Client Sample ID: S32 3'

Date Collected: 01/13/23 08:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-60

Matrix: Solid

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		01/19/23 13:15	01/21/23 01:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 01:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 01:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/21/23 01:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:15	01/21/23 01:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:15	01/21/23 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*01/19/23 13:15*	*01/21/23 01:04*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/19/23 13:15*	*01/21/23 01:04*	*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			01/23/23 13:07	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			01/30/23 10:22	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		01/18/23 15:18	01/28/23 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 11:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*01/18/23 15:18*	*01/28/23 11:32*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/18/23 15:18*	*01/28/23 11:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		4.98		mg/Kg			01/20/23 20:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S32 5'

Date Collected: 01/13/23 08:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-61

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202		mg/Kg		01/19/23 13:17	01/21/23 12:25	1
Toluene	<0.00202	U F2 F1	0.00202		mg/Kg		01/19/23 13:17	01/21/23 12:25	1
Ethylbenzene	<0.00202	U F2 F1	0.00202		mg/Kg		01/19/23 13:17	01/21/23 12:25	1
m,p-Xylenes	<0.00404	U F2 F1	0.00404		mg/Kg		01/19/23 13:17	01/21/23 12:25	1
o-Xylene	<0.00202	U F2 F1	0.00202		mg/Kg		01/19/23 13:17	01/21/23 12:25	1
Xylenes, Total	<0.00404	U F2 F1	0.00404		mg/Kg		01/19/23 13:17	01/21/23 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/19/23 13:17*	*01/21/23 12:25*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:17*	*01/21/23 12:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 10:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 10:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*01/19/23 08:35*	*01/19/23 10:59*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*01/19/23 08:35*	*01/19/23 10:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.6**		5.02		mg/Kg			01/20/23 21:17	1

Client Sample ID: S32 10'

Date Collected: 01/13/23 08:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-62

Matrix: Solid

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		01/19/23 13:17	01/21/23 12:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 12:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 12:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 12:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 12:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/19/23 13:17*	*01/21/23 12:46*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/19/23 13:17*	*01/21/23 12:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S32 10'
Date Collected: 01/13/23 08:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-62
Matrix: Solid

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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 15:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/23 08:35	01/19/23 15:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/23 08:35	01/19/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*01/19/23 08:35*	*01/19/23 15:46*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*01/19/23 08:35*	*01/19/23 15:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		4.97		mg/Kg			01/20/23 21:36	1

Client Sample ID: S33 1'
Date Collected: 01/13/23 08:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-63
Matrix: Solid

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		01/19/23 13:17	01/21/23 13:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:17	01/21/23 13:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:17	01/21/23 13:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/19/23 13:17	01/21/23 13:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/23 13:17	01/21/23 13:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/23 13:17	01/21/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:07*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:07*	*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			01/23/23 12:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**54.0**		49.9		mg/Kg			01/20/23 11:57	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		01/19/23 08:35	01/19/23 16:08	1
Diesel Range Organics (Over C10-C28)	**54.0**		49.9		mg/Kg		01/19/23 08:35	01/19/23 16:08	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S33 1'

Date Collected: 01/13/23 08:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-63

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:08*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1270**		25.0		mg/Kg			01/20/23 21:42	5

Client Sample ID: S33 3'

Date Collected: 01/13/23 09:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-64

Matrix: Solid

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		01/19/23 13:17	01/21/23 13:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 13:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:27*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:27*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 16:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/23 08:35	01/19/23 16:30	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/23 08:35	01/19/23 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:30*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**523**		5.05		mg/Kg			01/20/23 21:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S33 5'

Date Collected: 01/13/23 09:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-65

Matrix: Solid

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		01/19/23 13:17	01/21/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:17*	*01/21/23 13:48*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:52*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/19/23 08:35*	*01/19/23 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.6**		5.04		mg/Kg			01/20/23 21:54	1

Client Sample ID: S33 10'

Date Collected: 01/13/23 09:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-66

Matrix: Solid

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		01/19/23 13:17	01/21/23 14:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 14:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:08*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S33 10'

Date Collected: 01/13/23 09:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-66

Matrix: Solid

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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*75*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:14*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.8**		5.00		mg/Kg			01/20/23 22:12	1

Client Sample ID: S37 1'

Date Collected: 01/13/23 09:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-67

Matrix: Solid

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		01/19/23 13:17	01/21/23 14:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:29	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 14:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:29*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:29*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S37 1'

Date Collected: 01/13/23 09:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-67

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:36*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**961**		5.00		mg/Kg			01/20/23 22:19	1

Client Sample ID: S37 3'

Date Collected: 01/13/23 09:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-68

Matrix: Solid

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		01/19/23 13:17	01/21/23 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:50	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/19/23 13:17	01/21/23 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 14:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/23 13:17	01/21/23 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:50*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/19/23 13:17*	*01/21/23 14:50*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:58*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*01/19/23 08:35*	*01/19/23 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**159**		5.03		mg/Kg			01/20/23 22:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S37 5'

Date Collected: 01/13/23 09:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-69

Matrix: Solid

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		01/19/23 13:17	01/21/23 15:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 15:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/19/23 13:17*	*01/21/23 15:11*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/19/23 13:17*	*01/21/23 15:11*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*01/19/23 08:35*	*01/19/23 18:19*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/19/23 08:35*	*01/19/23 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		5.02		mg/Kg			01/20/23 22:31	1

Client Sample ID: S37 7'

Date Collected: 01/13/23 09:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-70

Matrix: Solid

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		01/19/23 13:17	01/21/23 15:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 15:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/23 13:17	01/21/23 15:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/23 13:17	01/21/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/19/23 13:17*	*01/21/23 15:31*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/19/23 13:17*	*01/21/23 15:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S37 7'

Date Collected: 01/13/23 09:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-70

Matrix: Solid

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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 08:35	01/19/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*01/19/23 08:35*	*01/19/23 18:41*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*01/19/23 08:35*	*01/19/23 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		4.98		mg/Kg			01/20/23 22:37	1

Client Sample ID: West

Date Collected: 01/13/23 09:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-71

Matrix: Solid

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		01/19/23 13:17	01/21/23 17:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 17:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 17:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 17:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 17:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/23 13:17	01/21/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/19/23 13:17*	*01/21/23 17:22*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/23 13:17*	*01/21/23 17:22*	*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			01/23/23 12:52	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			01/20/23 11:57	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		01/19/23 08:35	01/19/23 19:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 08:35	01/19/23 19:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: West

Date Collected: 01/13/23 09:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-71

Matrix: Solid

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		01/19/23 08:35	01/19/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/19/23 08:35*	*01/19/23 19:02*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/19/23 08:35*	*01/19/23 19:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		4.96		mg/Kg			01/20/23 22:43	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-23720-1	S20 1'	120	86
880-23720-1 MS	S20 1'	117	93
880-23720-1 MSD	S20 1'	84	84
880-23720-2	S20 3'	128	91
880-23720-3	S20 5'	134 S1+	95
880-23720-4	S20 10'	128	73
880-23720-5	S20 13'	107	80
880-23720-6	S26 1'	140 S1+	89
880-23720-7	S26 3'	120	88
880-23720-8	S26 5'	121	85
880-23720-9	S26 10'	125	89
880-23720-10	S25 1'	84	81
880-23720-11	S25 3'	113	83
880-23720-12	S25 5'	107	73
880-23720-13	S25 10'	108	86
880-23720-14	S24 1'	128	86
880-23720-15	S24 3'	131 S1+	93
880-23720-16	S24 6'	109	80
880-23720-17	S15 1'	102	83
880-23720-18	S15 3'	116	82
880-23720-19	S15 5'	139 S1+	89
880-23720-20	S15 10'	136 S1+	87
880-23720-21	S4 1'	114	110
880-23720-21 MS	S4 1'	94	113
880-23720-21 MSD	S4 1'	106	104
880-23720-22	S4 3'	103	110
880-23720-23	S4 5'	106	110
880-23720-24	S4 6'	101	114
880-23720-25	S5 1'	107	105
880-23720-26	S5 3'	106	116
880-23720-27	S5 5'	106	117
880-23720-28	S5 10'	106	113
880-23720-29	S11 1'	114	115
880-23720-30	S11 3'	109	115
880-23720-31	S11 5'	103	111
880-23720-32	S11 6'	103	110
880-23720-33	S9 1'	105	113
880-23720-34	S9 3'	107	112
880-23720-35	S9 5'	103	115
880-23720-36	S10 1'	99	115
880-23720-37	S10 3'	100	116
880-23720-38	S10 5'	102	114
880-23720-39	S10 7'	102	114
880-23720-40	S27 1'	84	94
880-23720-41	S27 3'	78	81
880-23720-41 MS	S27 3'	125	97
880-23720-41 MSD	S27 3'	119	99
880-23720-42	S27 5'	88	92
880-23720-43	S28 1'	74	83

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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)
880-23720-44	S28 3'	90	97
880-23720-45	S28 5'	87	85
880-23720-46	S28 7'	86	66 S1-
880-23720-47	S29 1'	91	80
880-23720-48	S29 3'	89	84
880-23720-49	S29 5'	89	92
880-23720-50	S29 7'	79	72
880-23720-51	S30 1'	85	90
880-23720-52	S30 3'	90	66 S1-
880-23720-53	S30 5'	114	84
880-23720-54	S30 7'	116	76
880-23720-55	S31 1'	78	72
880-23720-56	S31 3'	109	79
880-23720-57	S31 5'	86	93
880-23720-58	S31 6.5'	121	79
880-23720-59	S32 1'	120	89
880-23720-60	S32 3'	81	88
880-23720-61	S32 5'	94	116
880-23720-61 MS	S32 5'	98	113
880-23720-61 MSD	S32 5'	101	112
880-23720-62	S32 10'	109	112
880-23720-63	S33 1'	101	114
880-23720-64	S33 3'	98	115
880-23720-65	S33 5'	98	115
880-23720-66	S33 10'	98	117
880-23720-67	S37 1'	102	119
880-23720-68	S37 3'	95	115
880-23720-69	S37 5'	97	116
880-23720-70	S37 7'	100	117
880-23720-71	West	95	114
LCS 880-44339/1-A	Lab Control Sample	120	104
LCS 880-44340/1-A	Lab Control Sample	92	114
LCS 880-44341/1-A	Lab Control Sample	116	99
LCS 880-44342/1-A	Lab Control Sample	96	114
LCSD 880-44339/2-A	Lab Control Sample Dup	116	98
LCSD 880-44340/2-A	Lab Control Sample Dup	94	112
LCSD 880-44341/2-A	Lab Control Sample Dup	112	103
LCSD 880-44342/2-A	Lab Control Sample Dup	96	115
MB 880-44339/5-A	Method Blank	125	89
MB 880-44340/5-A	Method Blank	97	112
MB 880-44341/5-A	Method Blank	77	90
MB 880-44342/5-A	Method Blank	95	111
MB 880-44393/5-A	Method Blank	95	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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)								
880-23720-1	S20 1'	111	119								
880-23720-1 MS	S20 1'	77	70								
880-23720-1 MSD	S20 1'	83	78								
880-23720-2	S20 3'	86	91								
880-23720-3	S20 5'	75	76								
880-23720-4	S20 10'	40 S1-	35 S1-								
880-23720-5	S20 13'	61 S1-	54 S1-								
880-23720-6	S26 1'	83	85								
880-23720-7	S26 3'	79	82								
880-23720-8	S26 5'	55 S1-	52 S1-								
880-23720-9	S26 10'	58 S1-	57 S1-								
880-23720-10	S25 1'	67 S1-	66 S1-								
880-23720-11	S25 3'	70	72								
880-23720-12	S25 5'	71	71								
880-23720-13	S25 10'	59 S1-	55 S1-								
880-23720-14	S24 1'	81	82								
880-23720-15	S24 3'	55 S1-	54 S1-								
880-23720-16	S24 6'	42 S1-	37 S1-								
880-23720-17	S15 1'	85	90								
880-23720-18	S15 3'	82	85								
880-23720-19	S15 5'	94	99								
880-23720-20	S15 10'	91	92								
880-23720-21	S4 1'	119	124								
880-23720-21 MS	S4 1'	92	86								
880-23720-21 MSD	S4 1'	103	99								
880-23720-22	S4 3'	100	105								
880-23720-23	S4 5'	103	109								
880-23720-24	S4 6'	105	108								
880-23720-25	S5 1'	108	114								
880-23720-26	S5 3'	117	123								
880-23720-27	S5 5'	121	123								
880-23720-28	S5 10'	113	113								
880-23720-29	S11 1'	106	109								
880-23720-30	S11 3'	110	116								
880-23720-31	S11 5'	98	102								
880-23720-32	S11 6'	106	109								
880-23720-33	S9 1'	94	93								
880-23720-34	S9 3'	95	98								
880-23720-35	S9 5'	103	103								
880-23720-36	S10 1'	105	107								
880-23720-37	S10 3'	98	102								
880-23720-38	S10 5'	65 S1-	64 S1-								
880-23720-39	S10 7'	24 S1-	16 S1-								
880-23720-40	S27 1'	41 S1-	36 S1-								
880-23720-41	S27 3'	106	89								
880-23720-41 MS	S27 3'	43 S1-	30 S1-								
880-23720-41 MSD	S27 3'	105	90								
880-23720-42	S27 5'	118	108								
880-23720-43	S28 1'	111	107								
880-23720-44	S28 3'	128	123								

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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)
880-23720-45	S28 5'	134 S1+	127
880-23720-46	S28 7'	120	121
880-23720-47	S29 1'	138 S1+	132 S1+
880-23720-48	S29 3'	145 S1+	142 S1+
880-23720-49	S29 5'	130	120
880-23720-50	S29 7'	120	106
880-23720-51	S30 1'	124	110
880-23720-52	S30 3'	119	109
880-23720-53	S30 5'	115	112
880-23720-54	S30 7'	131 S1+	120
880-23720-55	S31 1'	119	118
880-23720-56	S31 3'	133 S1+	121
880-23720-57	S31 5'	122	113
880-23720-58	S31 6.5'	76	68 S1-
880-23720-59	S32 1'	107	99
880-23720-60	S32 3'	125	109
880-23720-61	S32 5'	113	104
880-23720-61 MS	S32 5'	106	90
880-23720-61 MSD	S32 5'	90	78
880-23720-62	S32 10'	113	105
880-23720-63	S33 1'	112	107
880-23720-64	S33 3'	104	102
880-23720-65	S33 5'	113	107
880-23720-66	S33 10'	75	73
880-23720-67	S37 1'	95	92
880-23720-68	S37 3'	104	99
880-23720-69	S37 5'	108	103
880-23720-70	S37 7'	112	106
880-23720-71	West	94	90
LCS 880-44274/2-A	Lab Control Sample	128	132 S1+
LCS 880-44275/2-A	Lab Control Sample	130	134 S1+
LCS 880-44284/2-A	Lab Control Sample	162 S1+	159 S1+
LCS 880-44313/2-A	Lab Control Sample	202 S1+	196 S1+
LCSD 880-44274/3-A	Lab Control Sample Dup	99	101
LCSD 880-44275/3-A	Lab Control Sample Dup	105	105
LCSD 880-44284/3-A	Lab Control Sample Dup	120	114
LCSD 880-44313/3-A	Lab Control Sample Dup	121	118
MB 880-44274/1-A	Method Blank	103	107
MB 880-44275/1-A	Method Blank	101	110
MB 880-44284/1-A	Method Blank	178 S1+	161 S1+
MB 880-44313/1-A	Method Blank	106	105

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44339/5-A
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44339

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 12:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/23 13:11	01/20/23 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:11	01/20/23 12:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/23 13:11	01/20/23 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/19/23 13:11*	*01/20/23 12:30*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/19/23 13:11*	*01/20/23 12:30*	*1*

Lab Sample ID: LCS 880-44339/1-A
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1159		mg/Kg		116	70 - 130		
Toluene			0.100	0.09890		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09869		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2157		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1078		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-44339/2-A
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09820		mg/Kg		98	70 - 130	17	35
Toluene			0.100	0.09151		mg/Kg		92	70 - 130	8	35
Ethylbenzene			0.100	0.08654		mg/Kg		87	70 - 130	13	35
m,p-Xylenes			0.200	0.1884		mg/Kg		94	70 - 130	14	35
o-Xylene			0.100	0.09709		mg/Kg		97	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-23720-1 MS
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: S20 1'
Prep Type: Total/NA
Prep Batch: 44339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.0998	0.09743		mg/Kg		98	70 - 130		
Toluene	<0.00202	U F1	0.0998	0.08577		mg/Kg		86	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23720-1 MS
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: S20 1'
Prep Type: Total/NA
Prep Batch: 44339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U F1	0.0998	0.08038		mg/Kg		81	70 - 130
m,p-Xylenes	<0.00403	U F1	0.200	0.1735		mg/Kg		87	70 - 130
o-Xylene	<0.00202	U F1 F2	0.0998	0.08712		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-23720-1 MSD
Matrix: Solid
Analysis Batch: 44420

Client Sample ID: S20 1'
Prep Type: Total/NA
Prep Batch: 44339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00202	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00202	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
m,p-Xylenes	<0.00403	U F1	0.200	<0.00401	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00202	U F1 F2	0.100	0.002378	F1 F2	mg/Kg		2	70 - 130	189	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 880-44340/5-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44340

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 13:13	01/21/23 00:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 13:13	01/21/23 00:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 13:13	01/21/23 00:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/19/23 13:13	01/21/23 00:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 13:13	01/21/23 00:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/23 13:13	01/21/23 00:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/19/23 13:13*	*01/21/23 00:19*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/19/23 13:13*	*01/21/23 00:19*	*1*

Lab Sample ID: LCS 880-44340/1-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09802		mg/Kg		98	70 - 130
Toluene	0.100	0.09115		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08735		mg/Kg		87	70 - 130
m,p-Xylenes	0.200	0.1775		mg/Kg		89	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-44340/1-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08542		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-44340/2-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09589		mg/Kg		96	70 - 130	2	35
Toluene			0.100	0.08992		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.08549		mg/Kg		85	70 - 130	2	35
m,p-Xylenes			0.200	0.1745		mg/Kg		87	70 - 130	2	35
o-Xylene			0.100	0.08467		mg/Kg		85	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-23720-21 MS
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F2 F1	0.0998	0.07564		mg/Kg		76	70 - 130		
Toluene	<0.00201	U F2 F1	0.0998	0.06596	F1	mg/Kg		66	70 - 130		
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.06614	F1	mg/Kg		66	70 - 130		
m,p-Xylenes	<0.00402	U F2 F1	0.200	0.07674	F1	mg/Kg		38	70 - 130		
o-Xylene	<0.00201	U F2 F1	0.0998	0.06506	F1	mg/Kg		65	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-23720-21 MSD
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F2 F1	0.100	0.03070	F2 F1	mg/Kg		31	70 - 130	85	35
Toluene	<0.00201	U F2 F1	0.100	0.03148	F2 F1	mg/Kg		31	70 - 130	71	35
Ethylbenzene	<0.00201	U F2 F1	0.100	0.03528	F2 F1	mg/Kg		35	70 - 130	61	35
m,p-Xylenes	<0.00402	U F2 F1	0.200	0.03350	F2 F1	mg/Kg		17	70 - 130	78	35
o-Xylene	<0.00201	U F2 F1	0.100	0.03872	F2 F1	mg/Kg		39	70 - 130	51	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23720-21 MSD
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44340

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-44341/5-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44341

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 16:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 16:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 16:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/23 13:15	01/20/23 16:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:15	01/20/23 16:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/23 13:15	01/20/23 16:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	01/19/23 13:15	01/20/23 16:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/19/23 13:15	01/20/23 16:23	1

Lab Sample ID: LCS 880-44341/1-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44341

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1014		mg/Kg		101	70 - 130		
Toluene			0.100	0.1025		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1121		mg/Kg		112	70 - 130		
m,p-Xylenes			0.200	0.2381		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1181		mg/Kg		118	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-44341/2-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44341

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09766		mg/Kg		98	70 - 130	4	35
Toluene			0.100	0.09517		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.09976		mg/Kg		100	70 - 130	12	35
m,p-Xylenes			0.200	0.2126		mg/Kg		106	70 - 130	11	35
o-Xylene			0.100	0.1051		mg/Kg		105	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-44341/2-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44341

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-23720-41 MS
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: S27 3'
Prep Type: Total/NA
Prep Batch: 44341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08109		mg/Kg		81	70 - 130
Toluene	<0.00201	U	0.100	0.08752		mg/Kg		87	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09841		mg/Kg		98	70 - 130
m,p-Xylenes	<0.00402	U	0.200	0.2110		mg/Kg		105	70 - 130
o-Xylene	<0.00201	U	0.100	0.1041		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-23720-41 MSD
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: S27 3'
Prep Type: Total/NA
Prep Batch: 44341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07994		mg/Kg		81	70 - 130	1	35
Toluene	<0.00201	U	0.0990	0.08283		mg/Kg		83	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0990	0.08957		mg/Kg		90	70 - 130	9	35
m,p-Xylenes	<0.00402	U	0.198	0.1885		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00201	U	0.0990	0.09356		mg/Kg		94	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-44342/5-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44342

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 11:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 11:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 11:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/23 13:17	01/21/23 11:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 13:17	01/21/23 11:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/23 13:17	01/21/23 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/19/23 13:17*	*01/21/23 11:57*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/19/23 13:17*	*01/21/23 11:57*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-44342/1-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09578		mg/Kg		96	70 - 130		
Toluene			0.100	0.08907		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08538		mg/Kg		85	70 - 130		
m,p-Xylenes			0.200	0.1726		mg/Kg		86	70 - 130		
o-Xylene			0.100	0.08413		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-44342/2-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44342

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09760		mg/Kg		98	70 - 130	2	35
Toluene			0.100	0.09010		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.08582		mg/Kg		86	70 - 130	1	35
m,p-Xylenes			0.200	0.1730		mg/Kg		86	70 - 130	0	35
o-Xylene			0.100	0.08489		mg/Kg		85	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-23720-61 MS
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S32 5'
Prep Type: Total/NA
Prep Batch: 44342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F2 F1	0.0996	0.06497	F1	mg/Kg		65	70 - 130		
Toluene	<0.00202	U F2 F1	0.0996	0.06294	F1	mg/Kg		63	70 - 130		
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.06079	F1	mg/Kg		61	70 - 130		
m,p-Xylenes	<0.00404	U F2 F1	0.199	0.1231	F1	mg/Kg		62	70 - 130		
o-Xylene	<0.00202	U F2 F1	0.0996	0.06114	F1	mg/Kg		61	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-23720-61 MSD
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S32 5'
Prep Type: Total/NA
Prep Batch: 44342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0990	0.02872	F2 F1	mg/Kg		29	70 - 130	77	35
Toluene	<0.00202	U F2 F1	0.0990	0.02996	F2 F1	mg/Kg		30	70 - 130	71	35
Ethylbenzene	<0.00202	U F2 F1	0.0990	0.03097	F2 F1	mg/Kg		31	70 - 130	65	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23720-61 MSD
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: S32 5'
Prep Type: Total/NA
Prep Batch: 44342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	<0.00404	U F2 F1	0.198	0.06516	F2 F1	mg/Kg		33	70 - 130	62	35
o-Xylene	<0.00202	U F2 F1	0.0990	0.03524	F2 F1	mg/Kg		36	70 - 130	54	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-44393/5-A
Matrix: Solid
Analysis Batch: 44418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44393

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/23 16:39	01/20/23 12:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/23 16:39	01/20/23 12:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/23 16:39	01/20/23 12:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/23 16:39	01/20/23 12:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/23 16:39	01/20/23 12:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/23 16:39	01/20/23 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/19/23 16:39*	*01/20/23 12:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/19/23 16:39*	*01/20/23 12:04*	*1*

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

Lab Sample ID: MB 880-44274/1-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44274

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		01/18/23 14:39	01/23/23 10:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 10:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:39	01/23/23 10:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/18/23 14:39*	*01/23/23 10:22*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/18/23 14:39*	*01/23/23 10:22*	*1*

Lab Sample ID: LCS 880-44274/2-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44274

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	891.2		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130		

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-44274/2-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44274

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	128		70 - 130
o-Terphenyl (Surr)	132	S1+	70 - 130

Lab Sample ID: LCSD 880-44274/3-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44274

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	977.9		mg/Kg		98	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1046		mg/Kg		105	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 880-23720-1 MS
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: S20 1'
Prep Type: Total/NA
Prep Batch: 44274

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	998	763.6		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	210	F1	998	857.9	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	77		70 - 130
o-Terphenyl (Surr)	70		70 - 130

Lab Sample ID: 880-23720-1 MSD
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: S20 1'
Prep Type: Total/NA
Prep Batch: 44274

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	997	838.3		mg/Kg		84	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	210	F1	997	940.4		mg/Kg		73	70 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	78		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-44275/1-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44275

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		01/18/23 14:42	01/23/23 22:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/23/23 22:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 14:42	01/23/23 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*01/18/23 14:42*	*01/23/23 22:18*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*01/18/23 14:42*	*01/23/23 22:18*	*1*

Lab Sample ID: LCS 880-44275/2-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*130*		*70 - 130*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-44275/3-A
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44275

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1063		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-23720-21 MS
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44275

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	998	1153		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1000		mg/Kg		98	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23720-21 MS
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44275

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-23720-21 MSD
Matrix: Solid
Analysis Batch: 44519

Client Sample ID: S4 1'
Prep Type: Total/NA
Prep Batch: 44275

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	997	956.1		mg/Kg		94	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1148		mg/Kg		113	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-44284/1-A
Matrix: Solid
Analysis Batch: 44896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44284

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		01/18/23 15:18	01/28/23 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 01:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/18/23 15:18	01/28/23 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*178*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 01:58*	*1*
o-Terphenyl (Surr)	*161*	*S1+*	*70 - 130*	*01/18/23 15:18*	*01/28/23 01:58*	*1*

Lab Sample ID: LCS 880-44284/2-A
Matrix: Solid
Analysis Batch: 44896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1260		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1229		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*162*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*159*	*S1+*	*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-44284/3-A
Matrix: Solid
Analysis Batch: 44896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1280		mg/Kg		128	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1252		mg/Kg		125	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*120*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-23720-41 MS
Matrix: Solid
Analysis Batch: 44896

Client Sample ID: S27 3'
Prep Type: Total/NA
Prep Batch: 44284

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 F2 F1	998	524.9	F1	mg/Kg		50	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F2 F1	998	376.7	F1	mg/Kg		38	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*43*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*30*	*S1-*	*70 - 130*

Lab Sample ID: 880-23720-41 MSD
Matrix: Solid
Analysis Batch: 44896

Client Sample ID: S27 3'
Prep Type: Total/NA
Prep Batch: 44284

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 F2 F1	997	1225	F2	mg/Kg		120	70 - 130	80	20
Diesel Range Organics (Over C10-C28)	<49.9	U F2 F1	997	1069	F2	mg/Kg		107	70 - 130	96	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 880-44313/1-A
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44313

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		01/19/23 08:05	01/19/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 08:05	01/19/23 08:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 08:05	01/19/23 08:23	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-44313/1-A
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44313

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	01/19/23 08:05	01/19/23 08:23	1
o-Terphenyl (Surr)	105		70 - 130	01/19/23 08:05	01/19/23 08:23	1

Lab Sample ID: LCS 880-44313/2-A
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1115		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	202	S1+	70 - 130
o-Terphenyl (Surr)	196	S1+	70 - 130

Lab Sample ID: LCSD 880-44313/3-A
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	988.4		mg/Kg		99	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	995.3		mg/Kg		100	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 880-23720-61 MS
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: S32 5'
Prep Type: Total/NA
Prep Batch: 44313

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	998	1016		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1053		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	90		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23720-61 MSD
Matrix: Solid
Analysis Batch: 44307

Client Sample ID: S32 5'
Prep Type: Total/NA
Prep Batch: 44313

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	997	947.1		mg/Kg		92	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	922.3		mg/Kg		93	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*90*		*70 - 130*
o-Terphenyl (Surr)	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44241/1-A
Matrix: Solid
Analysis Batch: 44476

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			01/20/23 13:48	1

Lab Sample ID: LCS 880-44241/2-A
Matrix: Solid
Analysis Batch: 44476

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.2		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-44241/3-A
Matrix: Solid
Analysis Batch: 44476

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	258.0		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 880-23720-1 MS
Matrix: Solid
Analysis Batch: 44476

Client Sample ID: S20 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2010	F1	1260	3472	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 880-23720-1 MSD
Matrix: Solid
Analysis Batch: 44476

Client Sample ID: S20 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2010	F1	1260	3464	F1	mg/Kg		115	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-23720-11 MS
Matrix: Solid
Analysis Batch: 44476

Client Sample ID: S25 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	149	F1	248	433.8	F1	mg/Kg		115	90 - 110

Lab Sample ID: 880-23720-11 MSD
Matrix: Solid
Analysis Batch: 44476

Client Sample ID: S25 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	149	F1	248	431.7	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: MB 880-44242/1-A
Matrix: Solid
Analysis Batch: 44495

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			01/20/23 12:51	1

Lab Sample ID: LCS 880-44242/2-A
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	252.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 880-44242/3-A
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	249.5		mg/Kg		100	90 - 110

Lab Sample ID: 880-23720-21 MS
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: S4 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2100	F1	1260	3508	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-23720-21 MSD
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: S4 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2100	F1	1260	3501	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: 880-23720-31 MS
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: S11 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.2		250	270.6		mg/Kg		103	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-23720-31 MSD
Matrix: Solid
Analysis Batch: 44495

Client Sample ID: S11 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.2		250	267.5		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-44243/1-A
Matrix: Solid
Analysis Batch: 44496

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			01/20/23 17:23	1

Lab Sample ID: LCS 880-44243/2-A
Matrix: Solid
Analysis Batch: 44496

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.3		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-44243/3-A
Matrix: Solid
Analysis Batch: 44496

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	271.4		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-23720-41 MS
Matrix: Solid
Analysis Batch: 44496

Client Sample ID: S27 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	146	F1	252	418.7		mg/Kg		108	90 - 110		

Lab Sample ID: 880-23720-41 MSD
Matrix: Solid
Analysis Batch: 44496

Client Sample ID: S27 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146	F1	252	424.9	F1	mg/Kg		111	90 - 110	1	20

Lab Sample ID: 880-23720-51 MS
Matrix: Solid
Analysis Batch: 44496

Client Sample ID: S30 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1320	F1	1250	2927	F1	mg/Kg		128	90 - 110		

Lab Sample ID: 880-23720-51 MSD
Matrix: Solid
Analysis Batch: 44496

Client Sample ID: S30 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1320	F1	1250	2863	F1	mg/Kg		123	90 - 110	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44244/1-A
Matrix: Solid
Analysis Batch: 44497

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			01/20/23 20:59	1

Lab Sample ID: LCS 880-44244/2-A
Matrix: Solid
Analysis Batch: 44497

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	267.2		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-44244/3-A
Matrix: Solid
Analysis Batch: 44497

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	268.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-23720-61 MS
Matrix: Solid
Analysis Batch: 44497

Client Sample ID: S32 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	64.6		251	334.1		mg/Kg		107	90 - 110		

Lab Sample ID: 880-23720-61 MSD
Matrix: Solid
Analysis Batch: 44497

Client Sample ID: S32 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.6		251	330.8		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-23720-71 MS
Matrix: Solid
Analysis Batch: 44497

Client Sample ID: West
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		248	384.5		mg/Kg		93	90 - 110		

Lab Sample ID: 880-23720-71 MSD
Matrix: Solid
Analysis Batch: 44497

Client Sample ID: West
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		248	385.1		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA

Prep Batch: 44339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	5035	
880-23720-2	S20 3'	Total/NA	Solid	5035	
880-23720-3	S20 5'	Total/NA	Solid	5035	
880-23720-4	S20 10'	Total/NA	Solid	5035	
880-23720-5	S20 13'	Total/NA	Solid	5035	
880-23720-6	S26 1'	Total/NA	Solid	5035	
880-23720-7	S26 3'	Total/NA	Solid	5035	
880-23720-8	S26 5'	Total/NA	Solid	5035	
880-23720-9	S26 10'	Total/NA	Solid	5035	
880-23720-10	S25 1'	Total/NA	Solid	5035	
880-23720-11	S25 3'	Total/NA	Solid	5035	
880-23720-12	S25 5'	Total/NA	Solid	5035	
880-23720-13	S25 10'	Total/NA	Solid	5035	
880-23720-14	S24 1'	Total/NA	Solid	5035	
880-23720-15	S24 3'	Total/NA	Solid	5035	
880-23720-16	S24 6'	Total/NA	Solid	5035	
880-23720-17	S15 1'	Total/NA	Solid	5035	
880-23720-18	S15 3'	Total/NA	Solid	5035	
880-23720-19	S15 5'	Total/NA	Solid	5035	
880-23720-20	S15 10'	Total/NA	Solid	5035	
MB 880-44339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23720-1 MS	S20 1'	Total/NA	Solid	5035	
880-23720-1 MSD	S20 1'	Total/NA	Solid	5035	

Prep Batch: 44340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21	S4 1'	Total/NA	Solid	5035	
880-23720-22	S4 3'	Total/NA	Solid	5035	
880-23720-23	S4 5'	Total/NA	Solid	5035	
880-23720-24	S4 6'	Total/NA	Solid	5035	
880-23720-25	S5 1'	Total/NA	Solid	5035	
880-23720-26	S5 3'	Total/NA	Solid	5035	
880-23720-27	S5 5'	Total/NA	Solid	5035	
880-23720-28	S5 10'	Total/NA	Solid	5035	
880-23720-29	S11 1'	Total/NA	Solid	5035	
880-23720-30	S11 3'	Total/NA	Solid	5035	
880-23720-31	S11 5'	Total/NA	Solid	5035	
880-23720-32	S11 6'	Total/NA	Solid	5035	
880-23720-33	S9 1'	Total/NA	Solid	5035	
880-23720-34	S9 3'	Total/NA	Solid	5035	
880-23720-35	S9 5'	Total/NA	Solid	5035	
880-23720-36	S10 1'	Total/NA	Solid	5035	
880-23720-37	S10 3'	Total/NA	Solid	5035	
880-23720-38	S10 5'	Total/NA	Solid	5035	
880-23720-39	S10 7'	Total/NA	Solid	5035	
880-23720-40	S27 1'	Total/NA	Solid	5035	
MB 880-44340/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44340/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44340/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA (Continued)

Prep Batch: 44340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21 MS	S4 1'	Total/NA	Solid	5035	
880-23720-21 MSD	S4 1'	Total/NA	Solid	5035	

Prep Batch: 44341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Total/NA	Solid	5035	
880-23720-42	S27 5'	Total/NA	Solid	5035	
880-23720-43	S28 1'	Total/NA	Solid	5035	
880-23720-44	S28 3'	Total/NA	Solid	5035	
880-23720-45	S28 5'	Total/NA	Solid	5035	
880-23720-46	S28 7'	Total/NA	Solid	5035	
880-23720-47	S29 1'	Total/NA	Solid	5035	
880-23720-48	S29 3'	Total/NA	Solid	5035	
880-23720-49	S29 5'	Total/NA	Solid	5035	
880-23720-50	S29 7'	Total/NA	Solid	5035	
880-23720-51	S30 1'	Total/NA	Solid	5035	
880-23720-52	S30 3'	Total/NA	Solid	5035	
880-23720-53	S30 5'	Total/NA	Solid	5035	
880-23720-54	S30 7'	Total/NA	Solid	5035	
880-23720-55	S31 1'	Total/NA	Solid	5035	
880-23720-56	S31 3'	Total/NA	Solid	5035	
880-23720-57	S31 5'	Total/NA	Solid	5035	
880-23720-58	S31 6.5'	Total/NA	Solid	5035	
880-23720-59	S32 1'	Total/NA	Solid	5035	
880-23720-60	S32 3'	Total/NA	Solid	5035	
MB 880-44341/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44341/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44341/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23720-41 MS	S27 3'	Total/NA	Solid	5035	
880-23720-41 MSD	S27 3'	Total/NA	Solid	5035	

Prep Batch: 44342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-61	S32 5'	Total/NA	Solid	5035	
880-23720-62	S32 10'	Total/NA	Solid	5035	
880-23720-63	S33 1'	Total/NA	Solid	5035	
880-23720-64	S33 3'	Total/NA	Solid	5035	
880-23720-65	S33 5'	Total/NA	Solid	5035	
880-23720-66	S33 10'	Total/NA	Solid	5035	
880-23720-67	S37 1'	Total/NA	Solid	5035	
880-23720-68	S37 3'	Total/NA	Solid	5035	
880-23720-69	S37 5'	Total/NA	Solid	5035	
880-23720-70	S37 7'	Total/NA	Solid	5035	
880-23720-71	West	Total/NA	Solid	5035	
MB 880-44342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44342/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23720-61 MS	S32 5'	Total/NA	Solid	5035	
880-23720-61 MSD	S32 5'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA

Prep Batch: 44393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44393/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21	S4 1'	Total/NA	Solid	8021B	44340
880-23720-22	S4 3'	Total/NA	Solid	8021B	44340
880-23720-23	S4 5'	Total/NA	Solid	8021B	44340
880-23720-24	S4 6'	Total/NA	Solid	8021B	44340
880-23720-25	S5 1'	Total/NA	Solid	8021B	44340
880-23720-26	S5 3'	Total/NA	Solid	8021B	44340
880-23720-27	S5 5'	Total/NA	Solid	8021B	44340
880-23720-28	S5 10'	Total/NA	Solid	8021B	44340
880-23720-29	S11 1'	Total/NA	Solid	8021B	44340
880-23720-30	S11 3'	Total/NA	Solid	8021B	44340
880-23720-31	S11 5'	Total/NA	Solid	8021B	44340
880-23720-32	S11 6'	Total/NA	Solid	8021B	44340
880-23720-33	S9 1'	Total/NA	Solid	8021B	44340
880-23720-34	S9 3'	Total/NA	Solid	8021B	44340
880-23720-35	S9 5'	Total/NA	Solid	8021B	44340
880-23720-36	S10 1'	Total/NA	Solid	8021B	44340
880-23720-37	S10 3'	Total/NA	Solid	8021B	44340
880-23720-38	S10 5'	Total/NA	Solid	8021B	44340
880-23720-39	S10 7'	Total/NA	Solid	8021B	44340
880-23720-40	S27 1'	Total/NA	Solid	8021B	44340
880-23720-61	S32 5'	Total/NA	Solid	8021B	44342
880-23720-62	S32 10'	Total/NA	Solid	8021B	44342
880-23720-63	S33 1'	Total/NA	Solid	8021B	44342
880-23720-64	S33 3'	Total/NA	Solid	8021B	44342
880-23720-65	S33 5'	Total/NA	Solid	8021B	44342
880-23720-66	S33 10'	Total/NA	Solid	8021B	44342
880-23720-67	S37 1'	Total/NA	Solid	8021B	44342
880-23720-68	S37 3'	Total/NA	Solid	8021B	44342
880-23720-69	S37 5'	Total/NA	Solid	8021B	44342
880-23720-70	S37 7'	Total/NA	Solid	8021B	44342
880-23720-71	West	Total/NA	Solid	8021B	44342
MB 880-44340/5-A	Method Blank	Total/NA	Solid	8021B	44340
MB 880-44342/5-A	Method Blank	Total/NA	Solid	8021B	44342
MB 880-44393/5-A	Method Blank	Total/NA	Solid	8021B	44393
LCS 880-44340/1-A	Lab Control Sample	Total/NA	Solid	8021B	44340
LCS 880-44342/1-A	Lab Control Sample	Total/NA	Solid	8021B	44342
LCSD 880-44340/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44340
LCSD 880-44342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44342
880-23720-21 MS	S4 1'	Total/NA	Solid	8021B	44340
880-23720-21 MSD	S4 1'	Total/NA	Solid	8021B	44340
880-23720-61 MS	S32 5'	Total/NA	Solid	8021B	44342
880-23720-61 MSD	S32 5'	Total/NA	Solid	8021B	44342

Analysis Batch: 44420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	8021B	44339
880-23720-2	S20 3'	Total/NA	Solid	8021B	44339

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 44420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-3	S20 5'	Total/NA	Solid	8021B	44339
880-23720-4	S20 10'	Total/NA	Solid	8021B	44339
880-23720-5	S20 13'	Total/NA	Solid	8021B	44339
880-23720-6	S26 1'	Total/NA	Solid	8021B	44339
880-23720-7	S26 3'	Total/NA	Solid	8021B	44339
880-23720-8	S26 5'	Total/NA	Solid	8021B	44339
880-23720-9	S26 10'	Total/NA	Solid	8021B	44339
880-23720-10	S25 1'	Total/NA	Solid	8021B	44339
880-23720-11	S25 3'	Total/NA	Solid	8021B	44339
880-23720-12	S25 5'	Total/NA	Solid	8021B	44339
880-23720-13	S25 10'	Total/NA	Solid	8021B	44339
880-23720-14	S24 1'	Total/NA	Solid	8021B	44339
880-23720-15	S24 3'	Total/NA	Solid	8021B	44339
880-23720-16	S24 6'	Total/NA	Solid	8021B	44339
880-23720-17	S15 1'	Total/NA	Solid	8021B	44339
880-23720-18	S15 3'	Total/NA	Solid	8021B	44339
880-23720-19	S15 5'	Total/NA	Solid	8021B	44339
880-23720-20	S15 10'	Total/NA	Solid	8021B	44339
MB 880-44339/5-A	Method Blank	Total/NA	Solid	8021B	44339
LCS 880-44339/1-A	Lab Control Sample	Total/NA	Solid	8021B	44339
LCSD 880-44339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44339
880-23720-1 MS	S20 1'	Total/NA	Solid	8021B	44339
880-23720-1 MSD	S20 1'	Total/NA	Solid	8021B	44339

Analysis Batch: 44464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Total/NA	Solid	8021B	44341
880-23720-42	S27 5'	Total/NA	Solid	8021B	44341
880-23720-43	S28 1'	Total/NA	Solid	8021B	44341
880-23720-44	S28 3'	Total/NA	Solid	8021B	44341
880-23720-45	S28 5'	Total/NA	Solid	8021B	44341
880-23720-46	S28 7'	Total/NA	Solid	8021B	44341
880-23720-47	S29 1'	Total/NA	Solid	8021B	44341
880-23720-48	S29 3'	Total/NA	Solid	8021B	44341
880-23720-49	S29 5'	Total/NA	Solid	8021B	44341
880-23720-50	S29 7'	Total/NA	Solid	8021B	44341
880-23720-51	S30 1'	Total/NA	Solid	8021B	44341
880-23720-52	S30 3'	Total/NA	Solid	8021B	44341
880-23720-53	S30 5'	Total/NA	Solid	8021B	44341
880-23720-54	S30 7'	Total/NA	Solid	8021B	44341
880-23720-55	S31 1'	Total/NA	Solid	8021B	44341
880-23720-56	S31 3'	Total/NA	Solid	8021B	44341
880-23720-57	S31 5'	Total/NA	Solid	8021B	44341
880-23720-58	S31 6.5'	Total/NA	Solid	8021B	44341
880-23720-59	S32 1'	Total/NA	Solid	8021B	44341
880-23720-60	S32 3'	Total/NA	Solid	8021B	44341
MB 880-44341/5-A	Method Blank	Total/NA	Solid	8021B	44341
LCS 880-44341/1-A	Lab Control Sample	Total/NA	Solid	8021B	44341
LCSD 880-44341/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44341
880-23720-41 MS	S27 3'	Total/NA	Solid	8021B	44341
880-23720-41 MSD	S27 3'	Total/NA	Solid	8021B	44341

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 44490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	Total BTEX	
880-23720-2	S20 3'	Total/NA	Solid	Total BTEX	
880-23720-3	S20 5'	Total/NA	Solid	Total BTEX	
880-23720-4	S20 10'	Total/NA	Solid	Total BTEX	
880-23720-5	S20 13'	Total/NA	Solid	Total BTEX	
880-23720-6	S26 1'	Total/NA	Solid	Total BTEX	
880-23720-7	S26 3'	Total/NA	Solid	Total BTEX	
880-23720-8	S26 5'	Total/NA	Solid	Total BTEX	
880-23720-9	S26 10'	Total/NA	Solid	Total BTEX	
880-23720-10	S25 1'	Total/NA	Solid	Total BTEX	
880-23720-11	S25 3'	Total/NA	Solid	Total BTEX	
880-23720-12	S25 5'	Total/NA	Solid	Total BTEX	
880-23720-13	S25 10'	Total/NA	Solid	Total BTEX	
880-23720-14	S24 1'	Total/NA	Solid	Total BTEX	
880-23720-15	S24 3'	Total/NA	Solid	Total BTEX	
880-23720-16	S24 6'	Total/NA	Solid	Total BTEX	
880-23720-17	S15 1'	Total/NA	Solid	Total BTEX	
880-23720-18	S15 3'	Total/NA	Solid	Total BTEX	
880-23720-19	S15 5'	Total/NA	Solid	Total BTEX	
880-23720-20	S15 10'	Total/NA	Solid	Total BTEX	
880-23720-21	S4 1'	Total/NA	Solid	Total BTEX	
880-23720-22	S4 3'	Total/NA	Solid	Total BTEX	
880-23720-23	S4 5'	Total/NA	Solid	Total BTEX	
880-23720-24	S4 6'	Total/NA	Solid	Total BTEX	
880-23720-25	S5 1'	Total/NA	Solid	Total BTEX	
880-23720-26	S5 3'	Total/NA	Solid	Total BTEX	
880-23720-27	S5 5'	Total/NA	Solid	Total BTEX	
880-23720-28	S5 10'	Total/NA	Solid	Total BTEX	
880-23720-29	S11 1'	Total/NA	Solid	Total BTEX	
880-23720-30	S11 3'	Total/NA	Solid	Total BTEX	
880-23720-31	S11 5'	Total/NA	Solid	Total BTEX	
880-23720-32	S11 6'	Total/NA	Solid	Total BTEX	
880-23720-33	S9 1'	Total/NA	Solid	Total BTEX	
880-23720-34	S9 3'	Total/NA	Solid	Total BTEX	
880-23720-35	S9 5'	Total/NA	Solid	Total BTEX	
880-23720-36	S10 1'	Total/NA	Solid	Total BTEX	
880-23720-37	S10 3'	Total/NA	Solid	Total BTEX	
880-23720-38	S10 5'	Total/NA	Solid	Total BTEX	
880-23720-39	S10 7'	Total/NA	Solid	Total BTEX	
880-23720-40	S27 1'	Total/NA	Solid	Total BTEX	
880-23720-41	S27 3'	Total/NA	Solid	Total BTEX	
880-23720-42	S27 5'	Total/NA	Solid	Total BTEX	
880-23720-43	S28 1'	Total/NA	Solid	Total BTEX	
880-23720-44	S28 3'	Total/NA	Solid	Total BTEX	
880-23720-45	S28 5'	Total/NA	Solid	Total BTEX	
880-23720-46	S28 7'	Total/NA	Solid	Total BTEX	
880-23720-47	S29 1'	Total/NA	Solid	Total BTEX	
880-23720-48	S29 3'	Total/NA	Solid	Total BTEX	
880-23720-49	S29 5'	Total/NA	Solid	Total BTEX	
880-23720-50	S29 7'	Total/NA	Solid	Total BTEX	
880-23720-51	S30 1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 44490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-52	S30 3'	Total/NA	Solid	Total BTEX	
880-23720-53	S30 5'	Total/NA	Solid	Total BTEX	
880-23720-54	S30 7'	Total/NA	Solid	Total BTEX	
880-23720-55	S31 1'	Total/NA	Solid	Total BTEX	
880-23720-56	S31 3'	Total/NA	Solid	Total BTEX	
880-23720-57	S31 5'	Total/NA	Solid	Total BTEX	
880-23720-58	S31 6.5'	Total/NA	Solid	Total BTEX	
880-23720-59	S32 1'	Total/NA	Solid	Total BTEX	
880-23720-60	S32 3'	Total/NA	Solid	Total BTEX	
880-23720-61	S32 5'	Total/NA	Solid	Total BTEX	
880-23720-62	S32 10'	Total/NA	Solid	Total BTEX	
880-23720-63	S33 1'	Total/NA	Solid	Total BTEX	
880-23720-64	S33 3'	Total/NA	Solid	Total BTEX	
880-23720-65	S33 5'	Total/NA	Solid	Total BTEX	
880-23720-66	S33 10'	Total/NA	Solid	Total BTEX	
880-23720-67	S37 1'	Total/NA	Solid	Total BTEX	
880-23720-68	S37 3'	Total/NA	Solid	Total BTEX	
880-23720-69	S37 5'	Total/NA	Solid	Total BTEX	
880-23720-70	S37 7'	Total/NA	Solid	Total BTEX	
880-23720-71	West	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	8015NM Prep	
880-23720-2	S20 3'	Total/NA	Solid	8015NM Prep	
880-23720-3	S20 5'	Total/NA	Solid	8015NM Prep	
880-23720-4	S20 10'	Total/NA	Solid	8015NM Prep	
880-23720-5	S20 13'	Total/NA	Solid	8015NM Prep	
880-23720-6	S26 1'	Total/NA	Solid	8015NM Prep	
880-23720-7	S26 3'	Total/NA	Solid	8015NM Prep	
880-23720-8	S26 5'	Total/NA	Solid	8015NM Prep	
880-23720-9	S26 10'	Total/NA	Solid	8015NM Prep	
880-23720-10	S25 1'	Total/NA	Solid	8015NM Prep	
880-23720-11	S25 3'	Total/NA	Solid	8015NM Prep	
880-23720-12	S25 5'	Total/NA	Solid	8015NM Prep	
880-23720-13	S25 10'	Total/NA	Solid	8015NM Prep	
880-23720-14	S24 1'	Total/NA	Solid	8015NM Prep	
880-23720-15	S24 3'	Total/NA	Solid	8015NM Prep	
880-23720-16	S24 6'	Total/NA	Solid	8015NM Prep	
880-23720-17	S15 1'	Total/NA	Solid	8015NM Prep	
880-23720-18	S15 3'	Total/NA	Solid	8015NM Prep	
880-23720-19	S15 5'	Total/NA	Solid	8015NM Prep	
880-23720-20	S15 10'	Total/NA	Solid	8015NM Prep	
MB 880-44274/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44274/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44274/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23720-1 MS	S20 1'	Total/NA	Solid	8015NM Prep	
880-23720-1 MSD	S20 1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC Semi VOA

Prep Batch: 44275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21	S4 1'	Total/NA	Solid	8015NM Prep	
880-23720-22	S4 3'	Total/NA	Solid	8015NM Prep	
880-23720-23	S4 5'	Total/NA	Solid	8015NM Prep	
880-23720-24	S4 6'	Total/NA	Solid	8015NM Prep	
880-23720-25	S5 1'	Total/NA	Solid	8015NM Prep	
880-23720-26	S5 3'	Total/NA	Solid	8015NM Prep	
880-23720-27	S5 5'	Total/NA	Solid	8015NM Prep	
880-23720-28	S5 10'	Total/NA	Solid	8015NM Prep	
880-23720-29	S11 1'	Total/NA	Solid	8015NM Prep	
880-23720-30	S11 3'	Total/NA	Solid	8015NM Prep	
880-23720-31	S11 5'	Total/NA	Solid	8015NM Prep	
880-23720-32	S11 6'	Total/NA	Solid	8015NM Prep	
880-23720-33	S9 1'	Total/NA	Solid	8015NM Prep	
880-23720-34	S9 3'	Total/NA	Solid	8015NM Prep	
880-23720-35	S9 5'	Total/NA	Solid	8015NM Prep	
880-23720-36	S10 1'	Total/NA	Solid	8015NM Prep	
880-23720-37	S10 3'	Total/NA	Solid	8015NM Prep	
880-23720-38	S10 5'	Total/NA	Solid	8015NM Prep	
880-23720-39	S10 7'	Total/NA	Solid	8015NM Prep	
880-23720-40	S27 1'	Total/NA	Solid	8015NM Prep	
MB 880-44275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23720-21 MS	S4 1'	Total/NA	Solid	8015NM Prep	
880-23720-21 MSD	S4 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 44284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Total/NA	Solid	8015NM Prep	
880-23720-42	S27 5'	Total/NA	Solid	8015NM Prep	
880-23720-43	S28 1'	Total/NA	Solid	8015NM Prep	
880-23720-44	S28 3'	Total/NA	Solid	8015NM Prep	
880-23720-45	S28 5'	Total/NA	Solid	8015NM Prep	
880-23720-46	S28 7'	Total/NA	Solid	8015NM Prep	
880-23720-47	S29 1'	Total/NA	Solid	8015NM Prep	
880-23720-48	S29 3'	Total/NA	Solid	8015NM Prep	
880-23720-49	S29 5'	Total/NA	Solid	8015NM Prep	
880-23720-50	S29 7'	Total/NA	Solid	8015NM Prep	
880-23720-51	S30 1'	Total/NA	Solid	8015NM Prep	
880-23720-52	S30 3'	Total/NA	Solid	8015NM Prep	
880-23720-53	S30 5'	Total/NA	Solid	8015NM Prep	
880-23720-54	S30 7'	Total/NA	Solid	8015NM Prep	
880-23720-55	S31 1'	Total/NA	Solid	8015NM Prep	
880-23720-56	S31 3'	Total/NA	Solid	8015NM Prep	
880-23720-57	S31 5'	Total/NA	Solid	8015NM Prep	
880-23720-58	S31 6.5'	Total/NA	Solid	8015NM Prep	
880-23720-59	S32 1'	Total/NA	Solid	8015NM Prep	
880-23720-60	S32 3'	Total/NA	Solid	8015NM Prep	
MB 880-44284/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44284/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Prep Batch: 44284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41 MS	S27 3'	Total/NA	Solid	8015NM Prep	
880-23720-41 MSD	S27 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-61	S32 5'	Total/NA	Solid	8015B NM	44313
880-23720-62	S32 10'	Total/NA	Solid	8015B NM	44313
880-23720-63	S33 1'	Total/NA	Solid	8015B NM	44313
880-23720-64	S33 3'	Total/NA	Solid	8015B NM	44313
880-23720-65	S33 5'	Total/NA	Solid	8015B NM	44313
880-23720-66	S33 10'	Total/NA	Solid	8015B NM	44313
880-23720-67	S37 1'	Total/NA	Solid	8015B NM	44313
880-23720-68	S37 3'	Total/NA	Solid	8015B NM	44313
880-23720-69	S37 5'	Total/NA	Solid	8015B NM	44313
880-23720-70	S37 7'	Total/NA	Solid	8015B NM	44313
880-23720-71	West	Total/NA	Solid	8015B NM	44313
MB 880-44313/1-A	Method Blank	Total/NA	Solid	8015B NM	44313
LCS 880-44313/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44313
LCSD 880-44313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44313
880-23720-61 MS	S32 5'	Total/NA	Solid	8015B NM	44313
880-23720-61 MSD	S32 5'	Total/NA	Solid	8015B NM	44313

Prep Batch: 44313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-61	S32 5'	Total/NA	Solid	8015NM Prep	
880-23720-62	S32 10'	Total/NA	Solid	8015NM Prep	
880-23720-63	S33 1'	Total/NA	Solid	8015NM Prep	
880-23720-64	S33 3'	Total/NA	Solid	8015NM Prep	
880-23720-65	S33 5'	Total/NA	Solid	8015NM Prep	
880-23720-66	S33 10'	Total/NA	Solid	8015NM Prep	
880-23720-67	S37 1'	Total/NA	Solid	8015NM Prep	
880-23720-68	S37 3'	Total/NA	Solid	8015NM Prep	
880-23720-69	S37 5'	Total/NA	Solid	8015NM Prep	
880-23720-70	S37 7'	Total/NA	Solid	8015NM Prep	
880-23720-71	West	Total/NA	Solid	8015NM Prep	
MB 880-44313/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44313/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23720-61 MS	S32 5'	Total/NA	Solid	8015NM Prep	
880-23720-61 MSD	S32 5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	8015 NM	
880-23720-2	S20 3'	Total/NA	Solid	8015 NM	
880-23720-3	S20 5'	Total/NA	Solid	8015 NM	
880-23720-4	S20 10'	Total/NA	Solid	8015 NM	
880-23720-5	S20 13'	Total/NA	Solid	8015 NM	
880-23720-6	S26 1'	Total/NA	Solid	8015 NM	
880-23720-7	S26 3'	Total/NA	Solid	8015 NM	
880-23720-8	S26 5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 44442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-9	S26 10'	Total/NA	Solid	8015 NM	
880-23720-10	S25 1'	Total/NA	Solid	8015 NM	
880-23720-11	S25 3'	Total/NA	Solid	8015 NM	
880-23720-12	S25 5'	Total/NA	Solid	8015 NM	
880-23720-13	S25 10'	Total/NA	Solid	8015 NM	
880-23720-14	S24 1'	Total/NA	Solid	8015 NM	
880-23720-15	S24 3'	Total/NA	Solid	8015 NM	
880-23720-16	S24 6'	Total/NA	Solid	8015 NM	
880-23720-17	S15 1'	Total/NA	Solid	8015 NM	
880-23720-18	S15 3'	Total/NA	Solid	8015 NM	
880-23720-19	S15 5'	Total/NA	Solid	8015 NM	
880-23720-20	S15 10'	Total/NA	Solid	8015 NM	
880-23720-21	S4 1'	Total/NA	Solid	8015 NM	
880-23720-22	S4 3'	Total/NA	Solid	8015 NM	
880-23720-23	S4 5'	Total/NA	Solid	8015 NM	
880-23720-24	S4 6'	Total/NA	Solid	8015 NM	
880-23720-25	S5 1'	Total/NA	Solid	8015 NM	
880-23720-26	S5 3'	Total/NA	Solid	8015 NM	
880-23720-27	S5 5'	Total/NA	Solid	8015 NM	
880-23720-28	S5 10'	Total/NA	Solid	8015 NM	
880-23720-29	S11 1'	Total/NA	Solid	8015 NM	
880-23720-30	S11 3'	Total/NA	Solid	8015 NM	
880-23720-31	S11 5'	Total/NA	Solid	8015 NM	
880-23720-32	S11 6'	Total/NA	Solid	8015 NM	
880-23720-33	S9 1'	Total/NA	Solid	8015 NM	
880-23720-34	S9 3'	Total/NA	Solid	8015 NM	
880-23720-35	S9 5'	Total/NA	Solid	8015 NM	
880-23720-36	S10 1'	Total/NA	Solid	8015 NM	
880-23720-37	S10 3'	Total/NA	Solid	8015 NM	
880-23720-38	S10 5'	Total/NA	Solid	8015 NM	
880-23720-39	S10 7'	Total/NA	Solid	8015 NM	
880-23720-40	S27 1'	Total/NA	Solid	8015 NM	
880-23720-41	S27 3'	Total/NA	Solid	8015 NM	
880-23720-42	S27 5'	Total/NA	Solid	8015 NM	
880-23720-43	S28 1'	Total/NA	Solid	8015 NM	
880-23720-44	S28 3'	Total/NA	Solid	8015 NM	
880-23720-45	S28 5'	Total/NA	Solid	8015 NM	
880-23720-46	S28 7'	Total/NA	Solid	8015 NM	
880-23720-47	S29 1'	Total/NA	Solid	8015 NM	
880-23720-48	S29 3'	Total/NA	Solid	8015 NM	
880-23720-49	S29 5'	Total/NA	Solid	8015 NM	
880-23720-50	S29 7'	Total/NA	Solid	8015 NM	
880-23720-51	S30 1'	Total/NA	Solid	8015 NM	
880-23720-52	S30 3'	Total/NA	Solid	8015 NM	
880-23720-53	S30 5'	Total/NA	Solid	8015 NM	
880-23720-54	S30 7'	Total/NA	Solid	8015 NM	
880-23720-55	S31 1'	Total/NA	Solid	8015 NM	
880-23720-56	S31 3'	Total/NA	Solid	8015 NM	
880-23720-57	S31 5'	Total/NA	Solid	8015 NM	
880-23720-58	S31 6.5'	Total/NA	Solid	8015 NM	
880-23720-59	S32 1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 44442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-60	S32 3'	Total/NA	Solid	8015 NM	
880-23720-61	S32 5'	Total/NA	Solid	8015 NM	
880-23720-62	S32 10'	Total/NA	Solid	8015 NM	
880-23720-63	S33 1'	Total/NA	Solid	8015 NM	
880-23720-64	S33 3'	Total/NA	Solid	8015 NM	
880-23720-65	S33 5'	Total/NA	Solid	8015 NM	
880-23720-66	S33 10'	Total/NA	Solid	8015 NM	
880-23720-67	S37 1'	Total/NA	Solid	8015 NM	
880-23720-68	S37 3'	Total/NA	Solid	8015 NM	
880-23720-69	S37 5'	Total/NA	Solid	8015 NM	
880-23720-70	S37 7'	Total/NA	Solid	8015 NM	
880-23720-71	West	Total/NA	Solid	8015 NM	

Analysis Batch: 44519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Total/NA	Solid	8015B NM	44274
880-23720-2	S20 3'	Total/NA	Solid	8015B NM	44274
880-23720-3	S20 5'	Total/NA	Solid	8015B NM	44274
880-23720-4	S20 10'	Total/NA	Solid	8015B NM	44274
880-23720-5	S20 13'	Total/NA	Solid	8015B NM	44274
880-23720-6	S26 1'	Total/NA	Solid	8015B NM	44274
880-23720-7	S26 3'	Total/NA	Solid	8015B NM	44274
880-23720-8	S26 5'	Total/NA	Solid	8015B NM	44274
880-23720-9	S26 10'	Total/NA	Solid	8015B NM	44274
880-23720-10	S25 1'	Total/NA	Solid	8015B NM	44274
880-23720-11	S25 3'	Total/NA	Solid	8015B NM	44274
880-23720-12	S25 5'	Total/NA	Solid	8015B NM	44274
880-23720-13	S25 10'	Total/NA	Solid	8015B NM	44274
880-23720-14	S24 1'	Total/NA	Solid	8015B NM	44274
880-23720-15	S24 3'	Total/NA	Solid	8015B NM	44274
880-23720-16	S24 6'	Total/NA	Solid	8015B NM	44274
880-23720-17	S15 1'	Total/NA	Solid	8015B NM	44274
880-23720-18	S15 3'	Total/NA	Solid	8015B NM	44274
880-23720-19	S15 5'	Total/NA	Solid	8015B NM	44274
880-23720-20	S15 10'	Total/NA	Solid	8015B NM	44274
880-23720-21	S4 1'	Total/NA	Solid	8015B NM	44275
880-23720-22	S4 3'	Total/NA	Solid	8015B NM	44275
880-23720-23	S4 5'	Total/NA	Solid	8015B NM	44275
880-23720-24	S4 6'	Total/NA	Solid	8015B NM	44275
880-23720-25	S5 1'	Total/NA	Solid	8015B NM	44275
880-23720-26	S5 3'	Total/NA	Solid	8015B NM	44275
880-23720-27	S5 5'	Total/NA	Solid	8015B NM	44275
880-23720-28	S5 10'	Total/NA	Solid	8015B NM	44275
880-23720-29	S11 1'	Total/NA	Solid	8015B NM	44275
880-23720-30	S11 3'	Total/NA	Solid	8015B NM	44275
880-23720-31	S11 5'	Total/NA	Solid	8015B NM	44275
880-23720-32	S11 6'	Total/NA	Solid	8015B NM	44275
880-23720-33	S9 1'	Total/NA	Solid	8015B NM	44275
880-23720-34	S9 3'	Total/NA	Solid	8015B NM	44275
880-23720-35	S9 5'	Total/NA	Solid	8015B NM	44275
880-23720-36	S10 1'	Total/NA	Solid	8015B NM	44275

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 44519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-37	S10 3'	Total/NA	Solid	8015B NM	44275
880-23720-38	S10 5'	Total/NA	Solid	8015B NM	44275
880-23720-39	S10 7'	Total/NA	Solid	8015B NM	44275
880-23720-40	S27 1'	Total/NA	Solid	8015B NM	44275
MB 880-44274/1-A	Method Blank	Total/NA	Solid	8015B NM	44274
MB 880-44275/1-A	Method Blank	Total/NA	Solid	8015B NM	44275
LCS 880-44274/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44274
LCS 880-44275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44275
LCSD 880-44274/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44274
LCSD 880-44275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44275
880-23720-1 MS	S20 1'	Total/NA	Solid	8015B NM	44274
880-23720-1 MSD	S20 1'	Total/NA	Solid	8015B NM	44274
880-23720-21 MS	S4 1'	Total/NA	Solid	8015B NM	44275
880-23720-21 MSD	S4 1'	Total/NA	Solid	8015B NM	44275

Analysis Batch: 44896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Total/NA	Solid	8015B NM	44284
880-23720-42	S27 5'	Total/NA	Solid	8015B NM	44284
880-23720-43	S28 1'	Total/NA	Solid	8015B NM	44284
880-23720-44	S28 3'	Total/NA	Solid	8015B NM	44284
880-23720-45	S28 5'	Total/NA	Solid	8015B NM	44284
880-23720-46	S28 7'	Total/NA	Solid	8015B NM	44284
880-23720-47	S29 1'	Total/NA	Solid	8015B NM	44284
880-23720-48	S29 3'	Total/NA	Solid	8015B NM	44284
880-23720-49	S29 5'	Total/NA	Solid	8015B NM	44284
880-23720-50	S29 7'	Total/NA	Solid	8015B NM	44284
880-23720-51	S30 1'	Total/NA	Solid	8015B NM	44284
880-23720-52	S30 3'	Total/NA	Solid	8015B NM	44284
880-23720-53	S30 5'	Total/NA	Solid	8015B NM	44284
880-23720-54	S30 7'	Total/NA	Solid	8015B NM	44284
880-23720-55	S31 1'	Total/NA	Solid	8015B NM	44284
880-23720-56	S31 3'	Total/NA	Solid	8015B NM	44284
880-23720-57	S31 5'	Total/NA	Solid	8015B NM	44284
880-23720-58	S31 6.5'	Total/NA	Solid	8015B NM	44284
880-23720-59	S32 1'	Total/NA	Solid	8015B NM	44284
880-23720-60	S32 3'	Total/NA	Solid	8015B NM	44284
MB 880-44284/1-A	Method Blank	Total/NA	Solid	8015B NM	44284
LCS 880-44284/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44284
LCSD 880-44284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44284
880-23720-41 MS	S27 3'	Total/NA	Solid	8015B NM	44284
880-23720-41 MSD	S27 3'	Total/NA	Solid	8015B NM	44284

HPLC/IC

Leach Batch: 44241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Soluble	Solid	DI Leach	
880-23720-2	S20 3'	Soluble	Solid	DI Leach	
880-23720-3	S20 5'	Soluble	Solid	DI Leach	
880-23720-4	S20 10'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 44241 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-5	S20 13'	Soluble	Solid	DI Leach	
880-23720-6	S26 1'	Soluble	Solid	DI Leach	
880-23720-7	S26 3'	Soluble	Solid	DI Leach	
880-23720-8	S26 5'	Soluble	Solid	DI Leach	
880-23720-9	S26 10'	Soluble	Solid	DI Leach	
880-23720-10	S25 1'	Soluble	Solid	DI Leach	
880-23720-11	S25 3'	Soluble	Solid	DI Leach	
880-23720-12	S25 5'	Soluble	Solid	DI Leach	
880-23720-13	S25 10'	Soluble	Solid	DI Leach	
880-23720-14	S24 1'	Soluble	Solid	DI Leach	
880-23720-15	S24 3'	Soluble	Solid	DI Leach	
880-23720-16	S24 6'	Soluble	Solid	DI Leach	
880-23720-17	S15 1'	Soluble	Solid	DI Leach	
880-23720-18	S15 3'	Soluble	Solid	DI Leach	
880-23720-19	S15 5'	Soluble	Solid	DI Leach	
880-23720-20	S15 10'	Soluble	Solid	DI Leach	
MB 880-44241/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44241/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44241/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23720-1 MS	S20 1'	Soluble	Solid	DI Leach	
880-23720-1 MSD	S20 1'	Soluble	Solid	DI Leach	
880-23720-11 MS	S25 3'	Soluble	Solid	DI Leach	
880-23720-11 MSD	S25 3'	Soluble	Solid	DI Leach	

Leach Batch: 44242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21	S4 1'	Soluble	Solid	DI Leach	
880-23720-22	S4 3'	Soluble	Solid	DI Leach	
880-23720-23	S4 5'	Soluble	Solid	DI Leach	
880-23720-24	S4 6'	Soluble	Solid	DI Leach	
880-23720-25	S5 1'	Soluble	Solid	DI Leach	
880-23720-26	S5 3'	Soluble	Solid	DI Leach	
880-23720-27	S5 5'	Soluble	Solid	DI Leach	
880-23720-28	S5 10'	Soluble	Solid	DI Leach	
880-23720-29	S11 1'	Soluble	Solid	DI Leach	
880-23720-30	S11 3'	Soluble	Solid	DI Leach	
880-23720-31	S11 5'	Soluble	Solid	DI Leach	
880-23720-32	S11 6'	Soluble	Solid	DI Leach	
880-23720-33	S9 1'	Soluble	Solid	DI Leach	
880-23720-34	S9 3'	Soluble	Solid	DI Leach	
880-23720-35	S9 5'	Soluble	Solid	DI Leach	
880-23720-36	S10 1'	Soluble	Solid	DI Leach	
880-23720-37	S10 3'	Soluble	Solid	DI Leach	
880-23720-38	S10 5'	Soluble	Solid	DI Leach	
880-23720-39	S10 7'	Soluble	Solid	DI Leach	
880-23720-40	S27 1'	Soluble	Solid	DI Leach	
MB 880-44242/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44242/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-44242/3-A	Lab Control Sample	Soluble	Solid	DI Leach	
880-23720-21 MS	S4 1'	Soluble	Solid	DI Leach	
880-23720-21 MSD	S4 1'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 44242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-31 MS	S11 5'	Soluble	Solid	DI Leach	
880-23720-31 MSD	S11 5'	Soluble	Solid	DI Leach	

Leach Batch: 44243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Soluble	Solid	DI Leach	
880-23720-42	S27 5'	Soluble	Solid	DI Leach	
880-23720-43	S28 1'	Soluble	Solid	DI Leach	
880-23720-44	S28 3'	Soluble	Solid	DI Leach	
880-23720-45	S28 5'	Soluble	Solid	DI Leach	
880-23720-46	S28 7'	Soluble	Solid	DI Leach	
880-23720-47	S29 1'	Soluble	Solid	DI Leach	
880-23720-48	S29 3'	Soluble	Solid	DI Leach	
880-23720-49	S29 5'	Soluble	Solid	DI Leach	
880-23720-50	S29 7'	Soluble	Solid	DI Leach	
880-23720-51	S30 1'	Soluble	Solid	DI Leach	
880-23720-52	S30 3'	Soluble	Solid	DI Leach	
880-23720-53	S30 5'	Soluble	Solid	DI Leach	
880-23720-54	S30 7'	Soluble	Solid	DI Leach	
880-23720-55	S31 1'	Soluble	Solid	DI Leach	
880-23720-56	S31 3'	Soluble	Solid	DI Leach	
880-23720-57	S31 5'	Soluble	Solid	DI Leach	
880-23720-58	S31 6.5'	Soluble	Solid	DI Leach	
880-23720-59	S32 1'	Soluble	Solid	DI Leach	
880-23720-60	S32 3'	Soluble	Solid	DI Leach	
MB 880-44243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23720-41 MS	S27 3'	Soluble	Solid	DI Leach	
880-23720-41 MSD	S27 3'	Soluble	Solid	DI Leach	
880-23720-51 MS	S30 1'	Soluble	Solid	DI Leach	
880-23720-51 MSD	S30 1'	Soluble	Solid	DI Leach	

Leach Batch: 44244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-61	S32 5'	Soluble	Solid	DI Leach	
880-23720-62	S32 10'	Soluble	Solid	DI Leach	
880-23720-63	S33 1'	Soluble	Solid	DI Leach	
880-23720-64	S33 3'	Soluble	Solid	DI Leach	
880-23720-65	S33 5'	Soluble	Solid	DI Leach	
880-23720-66	S33 10'	Soluble	Solid	DI Leach	
880-23720-67	S37 1'	Soluble	Solid	DI Leach	
880-23720-68	S37 3'	Soluble	Solid	DI Leach	
880-23720-69	S37 5'	Soluble	Solid	DI Leach	
880-23720-70	S37 7'	Soluble	Solid	DI Leach	
880-23720-71	West	Soluble	Solid	DI Leach	
MB 880-44244/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44244/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44244/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23720-61 MS	S32 5'	Soluble	Solid	DI Leach	
880-23720-61 MSD	S32 5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 44244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-71 MS	West	Soluble	Solid	DI Leach	
880-23720-71 MSD	West	Soluble	Solid	DI Leach	

Analysis Batch: 44476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-1	S20 1'	Soluble	Solid	300.0	44241
880-23720-2	S20 3'	Soluble	Solid	300.0	44241
880-23720-3	S20 5'	Soluble	Solid	300.0	44241
880-23720-4	S20 10'	Soluble	Solid	300.0	44241
880-23720-5	S20 13'	Soluble	Solid	300.0	44241
880-23720-6	S26 1'	Soluble	Solid	300.0	44241
880-23720-7	S26 3'	Soluble	Solid	300.0	44241
880-23720-8	S26 5'	Soluble	Solid	300.0	44241
880-23720-9	S26 10'	Soluble	Solid	300.0	44241
880-23720-10	S25 1'	Soluble	Solid	300.0	44241
880-23720-11	S25 3'	Soluble	Solid	300.0	44241
880-23720-12	S25 5'	Soluble	Solid	300.0	44241
880-23720-13	S25 10'	Soluble	Solid	300.0	44241
880-23720-14	S24 1'	Soluble	Solid	300.0	44241
880-23720-15	S24 3'	Soluble	Solid	300.0	44241
880-23720-16	S24 6'	Soluble	Solid	300.0	44241
880-23720-17	S15 1'	Soluble	Solid	300.0	44241
880-23720-18	S15 3'	Soluble	Solid	300.0	44241
880-23720-19	S15 5'	Soluble	Solid	300.0	44241
880-23720-20	S15 10'	Soluble	Solid	300.0	44241
MB 880-44241/1-A	Method Blank	Soluble	Solid	300.0	44241
LCS 880-44241/2-A	Lab Control Sample	Soluble	Solid	300.0	44241
LCSD 880-44241/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44241
880-23720-1 MS	S20 1'	Soluble	Solid	300.0	44241
880-23720-1 MSD	S20 1'	Soluble	Solid	300.0	44241
880-23720-11 MS	S25 3'	Soluble	Solid	300.0	44241
880-23720-11 MSD	S25 3'	Soluble	Solid	300.0	44241

Analysis Batch: 44495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-21	S4 1'	Soluble	Solid	300.0	44242
880-23720-22	S4 3'	Soluble	Solid	300.0	44242
880-23720-23	S4 5'	Soluble	Solid	300.0	44242
880-23720-24	S4 6'	Soluble	Solid	300.0	44242
880-23720-25	S5 1'	Soluble	Solid	300.0	44242
880-23720-26	S5 3'	Soluble	Solid	300.0	44242
880-23720-27	S5 5'	Soluble	Solid	300.0	44242
880-23720-28	S5 10'	Soluble	Solid	300.0	44242
880-23720-29	S11 1'	Soluble	Solid	300.0	44242
880-23720-30	S11 3'	Soluble	Solid	300.0	44242
880-23720-31	S11 5'	Soluble	Solid	300.0	44242
880-23720-32	S11 6'	Soluble	Solid	300.0	44242
880-23720-33	S9 1'	Soluble	Solid	300.0	44242
880-23720-34	S9 3'	Soluble	Solid	300.0	44242
880-23720-35	S9 5'	Soluble	Solid	300.0	44242
880-23720-36	S10 1'	Soluble	Solid	300.0	44242

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 44495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-37	S10 3'	Soluble	Solid	300.0	44242
880-23720-38	S10 5'	Soluble	Solid	300.0	44242
880-23720-39	S10 7'	Soluble	Solid	300.0	44242
880-23720-40	S27 1'	Soluble	Solid	300.0	44242
MB 880-44242/1-A	Method Blank	Soluble	Solid	300.0	44242
LCS 880-44242/2-A	Lab Control Sample	Soluble	Solid	300.0	44242
LCS 880-44242/3-A	Lab Control Sample	Soluble	Solid	300.0	44242
880-23720-21 MS	S4 1'	Soluble	Solid	300.0	44242
880-23720-21 MSD	S4 1'	Soluble	Solid	300.0	44242
880-23720-31 MS	S11 5'	Soluble	Solid	300.0	44242
880-23720-31 MSD	S11 5'	Soluble	Solid	300.0	44242

Analysis Batch: 44496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-41	S27 3'	Soluble	Solid	300.0	44243
880-23720-42	S27 5'	Soluble	Solid	300.0	44243
880-23720-43	S28 1'	Soluble	Solid	300.0	44243
880-23720-44	S28 3'	Soluble	Solid	300.0	44243
880-23720-45	S28 5'	Soluble	Solid	300.0	44243
880-23720-46	S28 7'	Soluble	Solid	300.0	44243
880-23720-47	S29 1'	Soluble	Solid	300.0	44243
880-23720-48	S29 3'	Soluble	Solid	300.0	44243
880-23720-49	S29 5'	Soluble	Solid	300.0	44243
880-23720-50	S29 7'	Soluble	Solid	300.0	44243
880-23720-51	S30 1'	Soluble	Solid	300.0	44243
880-23720-52	S30 3'	Soluble	Solid	300.0	44243
880-23720-53	S30 5'	Soluble	Solid	300.0	44243
880-23720-54	S30 7'	Soluble	Solid	300.0	44243
880-23720-55	S31 1'	Soluble	Solid	300.0	44243
880-23720-56	S31 3'	Soluble	Solid	300.0	44243
880-23720-57	S31 5'	Soluble	Solid	300.0	44243
880-23720-58	S31 6.5'	Soluble	Solid	300.0	44243
880-23720-59	S32 1'	Soluble	Solid	300.0	44243
880-23720-60	S32 3'	Soluble	Solid	300.0	44243
MB 880-44243/1-A	Method Blank	Soluble	Solid	300.0	44243
LCS 880-44243/2-A	Lab Control Sample	Soluble	Solid	300.0	44243
LCSD 880-44243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44243
880-23720-41 MS	S27 3'	Soluble	Solid	300.0	44243
880-23720-41 MSD	S27 3'	Soluble	Solid	300.0	44243
880-23720-51 MS	S30 1'	Soluble	Solid	300.0	44243
880-23720-51 MSD	S30 1'	Soluble	Solid	300.0	44243

Analysis Batch: 44497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-61	S32 5'	Soluble	Solid	300.0	44244
880-23720-62	S32 10'	Soluble	Solid	300.0	44244
880-23720-63	S33 1'	Soluble	Solid	300.0	44244
880-23720-64	S33 3'	Soluble	Solid	300.0	44244
880-23720-65	S33 5'	Soluble	Solid	300.0	44244
880-23720-66	S33 10'	Soluble	Solid	300.0	44244
880-23720-67	S37 1'	Soluble	Solid	300.0	44244

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 44497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23720-68	S37 3'	Soluble	Solid	300.0	44244
880-23720-69	S37 5'	Soluble	Solid	300.0	44244
880-23720-70	S37 7'	Soluble	Solid	300.0	44244
880-23720-71	West	Soluble	Solid	300.0	44244
MB 880-44244/1-A	Method Blank	Soluble	Solid	300.0	44244
LCS 880-44244/2-A	Lab Control Sample	Soluble	Solid	300.0	44244
LCSD 880-44244/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44244
880-23720-61 MS	S32 5'	Soluble	Solid	300.0	44244
880-23720-61 MSD	S32 5'	Soluble	Solid	300.0	44244
880-23720-71 MS	West	Soluble	Solid	300.0	44244
880-23720-71 MSD	West	Soluble	Solid	300.0	44244

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 1'

Date Collected: 01/12/23 12:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-1

Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 13:07	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		5			44476	01/20/23 14:06	CH	EET MID

Client Sample ID: S20 3'

Date Collected: 01/12/23 12:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-2

Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 14:14	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 14:25	CH	EET MID

Client Sample ID: S20 5'

Date Collected: 01/12/23 12:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-3

Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 14:37	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		5			44476	01/20/23 14:31	CH	EET MID

Client Sample ID: S20 10'

Date Collected: 01/12/23 12:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-4

Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/20/23 14:37	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S20 10'
Date Collected: 01/12/23 12:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-4
Matrix: Solid

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			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 15:00	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 14:37	CH	EET MID

Client Sample ID: S20 13'
Date Collected: 01/12/23 12:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-5
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 15:23	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 14:43	CH	EET MID

Client Sample ID: S26 1'
Date Collected: 01/12/23 13:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-6
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 15:46	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		5			44476	01/20/23 15:02	CH	EET MID

Client Sample ID: S26 3'
Date Collected: 01/12/23 13:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-7
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 16:09	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S26 3'
Date Collected: 01/12/23 13:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-7
Matrix: Solid

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 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:08	CH	EET MID

Client Sample ID: S26 5'
Date Collected: 01/12/23 13:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-8
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 16:33	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:14	CH	EET MID

Client Sample ID: S26 10'
Date Collected: 01/12/23 13:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-9
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 16:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:20	CH	EET MID

Client Sample ID: S25 1'
Date Collected: 01/12/23 13:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-10
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		5			44476	01/20/23 15:26	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S25 3'
Date Collected: 01/12/23 13:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-11
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 18:05	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:32	CH	EET MID

Client Sample ID: S25 5'
Date Collected: 01/12/23 13:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-12
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 18:28	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:51	CH	EET MID

Client Sample ID: S25 10'
Date Collected: 01/12/23 13:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-13
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 18:51	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 15:57	CH	EET MID

Client Sample ID: S24 1'
Date Collected: 01/12/23 14:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-14
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S24 1'
Date Collected: 01/12/23 14:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-14
Matrix: Solid

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			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 19:14	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		5			44476	01/20/23 16:15	CH	EET MID

Client Sample ID: S24 3'
Date Collected: 01/12/23 14:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-15
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 19:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:22	CH	EET MID

Client Sample ID: S24 6'
Date Collected: 01/12/23 14:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-16
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 20:03	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:28	CH	EET MID

Client Sample ID: S15 1'
Date Collected: 01/12/23 14:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-17
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 20:25	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S15 1'
Date Collected: 01/12/23 14:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-17
Matrix: Solid

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	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:34	CH	EET MID

Client Sample ID: S15 3'
Date Collected: 01/12/23 14:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-18
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 20:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:40	CH	EET MID

Client Sample ID: S15 5'
Date Collected: 01/12/23 14:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-19
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 21:10	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:46	CH	EET MID

Client Sample ID: S15 10'
Date Collected: 01/12/23 14:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-20
Matrix: Solid

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	44339	01/19/23 13:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44420	01/20/23 22:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44274	01/18/23 14:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 21:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44241	01/18/23 11:44	KS	EET MID
Soluble	Analysis	300.0		1			44476	01/20/23 16:52	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S4 1'

Date Collected: 01/12/23 15:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-21

Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/23/23 23:22	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		5			44495	01/20/23 13:08	CH	EET MID

Client Sample ID: S4 3'

Date Collected: 01/12/23 15:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-22

Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 00:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 13:26	CH	EET MID

Client Sample ID: S4 5'

Date Collected: 01/12/23 15:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-23

Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 01:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 00:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 13:32	CH	EET MID

Client Sample ID: S4 6'

Date Collected: 01/12/23 15:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-24

Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S4 6'

Lab Sample ID: 880-23720-24
Matrix: Solid
Date Collected: 01/12/23 15:15
Date Received: 01/16/23 11:55

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			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 01:09	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 13:37	CH	EET MID

Client Sample ID: S5 1'

Lab Sample ID: 880-23720-25
Matrix: Solid
Date Collected: 01/12/23 15:30
Date Received: 01/16/23 11:55

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 01:30	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 13:43	CH	EET MID

Client Sample ID: S5 3'

Lab Sample ID: 880-23720-26
Matrix: Solid
Date Collected: 01/12/23 15:35
Date Received: 01/16/23 11:55

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 01:52	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:01	CH	EET MID

Client Sample ID: S5 5'

Lab Sample ID: 880-23720-27
Matrix: Solid
Date Collected: 01/12/23 15:40
Date Received: 01/16/23 11:55

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 02:13	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S5 5'
Date Collected: 01/12/23 15:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-27
Matrix: Solid

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 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:07	CH	EET MID

Client Sample ID: S5 10'
Date Collected: 01/12/23 15:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-28
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 02:34	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:13	CH	EET MID

Client Sample ID: S11 1'
Date Collected: 01/12/23 16:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-29
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 02:56	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		10			44495	01/23/23 13:54	CH	EET MID

Client Sample ID: S11 3'
Date Collected: 01/12/23 16:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-30
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 03:18	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:24	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S11 5'

Date Collected: 01/12/23 16:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-31
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 04:01	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:30	CH	EET MID

Client Sample ID: S11 6'

Date Collected: 01/12/23 16:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-32
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 04:22	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:28	CH	EET MID

Client Sample ID: S9 1'

Date Collected: 01/12/23 16:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-33
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 04:44	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 14:53	CH	EET MID

Client Sample ID: S9 3'

Date Collected: 01/12/23 16:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-34
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 06:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S9 3'
Date Collected: 01/12/23 16:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-34
Matrix: Solid

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			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 05:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:34	CH	EET MID

Client Sample ID: S9 5'
Date Collected: 01/12/23 16:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-35
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 07:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 05:26	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:39	CH	EET MID

Client Sample ID: S10 1'
Date Collected: 01/12/23 16:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-36
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 07:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 05:47	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:45	CH	EET MID

Client Sample ID: S10 3'
Date Collected: 01/12/23 16:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-37
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 07:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 06:09	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S10 3'
Date Collected: 01/12/23 16:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:51	CH	EET MID

Client Sample ID: S10 5'
Date Collected: 01/12/23 16:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-38
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 08:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 06:32	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 15:57	CH	EET MID

Client Sample ID: S10 7'
Date Collected: 01/12/23 17:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-39
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 08:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 06:56	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 16:03	CH	EET MID

Client Sample ID: S27 1'
Date Collected: 01/13/23 07:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-40
Matrix: Solid

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	44340	01/19/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 08:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/24/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44275	01/18/23 14:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44519	01/24/23 07:19	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44242	01/18/23 11:46	KS	EET MID
Soluble	Analysis	300.0		1			44495	01/20/23 16:09	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S27 3'
Date Collected: 01/13/23 07:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-41
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 03:13	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 17:42	CH	EET MID

Client Sample ID: S27 5'
Date Collected: 01/13/23 07:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-42
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 04:24	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:00	CH	EET MID

Client Sample ID: S28 1'
Date Collected: 01/13/23 07:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-43
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 04:47	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:06	CH	EET MID

Client Sample ID: S28 3'
Date Collected: 01/13/23 07:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-44
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S28 3'
Date Collected: 01/13/23 07:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-44
Matrix: Solid

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			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 05:09	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:12	CH	EET MID

Client Sample ID: S28 5'
Date Collected: 01/13/23 07:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-45
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 05:30	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:18	CH	EET MID

Client Sample ID: S28 7'
Date Collected: 01/13/23 07:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-46
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 05:51	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:37	CH	EET MID

Client Sample ID: S29 1'
Date Collected: 01/13/23 07:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-47
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 06:13	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S29 1'
Date Collected: 01/13/23 07:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-47
Matrix: Solid

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 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:43	CH	EET MID

Client Sample ID: S29 3'
Date Collected: 01/13/23 07:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-48
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 06:34	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:49	CH	EET MID

Client Sample ID: S29 5'
Date Collected: 01/13/23 07:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-49
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 06:56	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 18:55	CH	EET MID

Client Sample ID: S29 7'
Date Collected: 01/13/23 07:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-50
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 20:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 07:19	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 19:02	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S30 1'
Date Collected: 01/13/23 07:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-51
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 22:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 08:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		5			44496	01/20/23 19:08	CH	EET MID

Client Sample ID: S30 3'
Date Collected: 01/13/23 08:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-52
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 22:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 08:29	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 19:26	CH	EET MID

Client Sample ID: S30 5'
Date Collected: 01/13/23 08:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-53
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 08:51	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 19:32	CH	EET MID

Client Sample ID: S30 7'
Date Collected: 01/13/23 08:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-54
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 23:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S30 7'
Date Collected: 01/13/23 08:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-54
Matrix: Solid

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			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 09:14	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 19:51	CH	EET MID

Client Sample ID: S31 1'
Date Collected: 01/13/23 08:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-55
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 09:36	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 19:57	CH	EET MID

Client Sample ID: S31 3'
Date Collected: 01/13/23 08:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-56
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/20/23 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 09:59	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 20:03	CH	EET MID

Client Sample ID: S31 5'
Date Collected: 01/13/23 08:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-57
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 10:20	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S31 5'
Date Collected: 01/13/23 08:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 20:09	CH	EET MID

Client Sample ID: S31 6.5'
Date Collected: 01/13/23 08:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 10:44	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 20:15	CH	EET MID

Client Sample ID: S32 1'
Date Collected: 01/13/23 08:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-59
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 11:08	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		5			44496	01/20/23 20:22	CH	EET MID

Client Sample ID: S32 3'
Date Collected: 01/13/23 08:40
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-60
Matrix: Solid

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	44341	01/19/23 13:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/30/23 10:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44284	01/18/23 15:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44896	01/28/23 11:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44243	01/18/23 11:47	KS	EET MID
Soluble	Analysis	300.0		1			44496	01/20/23 20:28	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S32 5'

Date Collected: 01/13/23 08:45
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 10:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 21:17	CH	EET MID

Client Sample ID: S32 10'

Date Collected: 01/13/23 08:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-62
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 15:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 21:36	CH	EET MID

Client Sample ID: S33 1'

Date Collected: 01/13/23 08:55
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 16:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		5			44497	01/20/23 21:42	CH	EET MID

Client Sample ID: S33 3'

Date Collected: 01/13/23 09:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-64
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S33 3'
Date Collected: 01/13/23 09:00
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-64
Matrix: Solid

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			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 16:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 21:48	CH	EET MID

Client Sample ID: S33 5'
Date Collected: 01/13/23 09:05
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-65
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 21:54	CH	EET MID

Client Sample ID: S33 10'
Date Collected: 01/13/23 09:10
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-66
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:12	CH	EET MID

Client Sample ID: S37 1'
Date Collected: 01/13/23 09:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-67
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 17:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: S37 1'
Date Collected: 01/13/23 09:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-67
Matrix: Solid

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 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:19	CH	EET MID

Client Sample ID: S37 3'
Date Collected: 01/13/23 09:20
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-68
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 17:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:25	CH	EET MID

Client Sample ID: S37 5'
Date Collected: 01/13/23 09:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-69
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:31	CH	EET MID

Client Sample ID: S37 7'
Date Collected: 01/13/23 09:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-70
Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:37	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Client Sample ID: West

Date Collected: 01/13/23 09:35
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23720-71

Matrix: Solid

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	44342	01/19/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44418	01/21/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44490	01/23/23 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44442	01/20/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44313	01/19/23 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44307	01/19/23 19:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44244	01/18/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1			44497	01/20/23 22:43	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23720-1	S20 1'	Solid	01/12/23 12:30	01/16/23 11:55
880-23720-2	S20 3'	Solid	01/12/23 12:35	01/16/23 11:55
880-23720-3	S20 5'	Solid	01/12/23 12:40	01/16/23 11:55
880-23720-4	S20 10'	Solid	01/12/23 12:45	01/16/23 11:55
880-23720-5	S20 13'	Solid	01/12/23 12:50	01/16/23 11:55
880-23720-6	S26 1'	Solid	01/12/23 13:00	01/16/23 11:55
880-23720-7	S26 3'	Solid	01/12/23 13:05	01/16/23 11:55
880-23720-8	S26 5'	Solid	01/12/23 13:10	01/16/23 11:55
880-23720-9	S26 10'	Solid	01/12/23 13:15	01/16/23 11:55
880-23720-10	S25 1'	Solid	01/12/23 13:30	01/16/23 11:55
880-23720-11	S25 3'	Solid	01/12/23 13:35	01/16/23 11:55
880-23720-12	S25 5'	Solid	01/12/23 13:40	01/16/23 11:55
880-23720-13	S25 10'	Solid	01/12/23 13:45	01/16/23 11:55
880-23720-14	S24 1'	Solid	01/12/23 14:00	01/16/23 11:55
880-23720-15	S24 3'	Solid	01/12/23 14:05	01/16/23 11:55
880-23720-16	S24 6'	Solid	01/12/23 14:10	01/16/23 11:55
880-23720-17	S15 1'	Solid	01/12/23 14:30	01/16/23 11:55
880-23720-18	S15 3'	Solid	01/12/23 14:35	01/16/23 11:55
880-23720-19	S15 5'	Solid	01/12/23 14:40	01/16/23 11:55
880-23720-20	S15 10'	Solid	01/12/23 14:45	01/16/23 11:55
880-23720-21	S4 1'	Solid	01/12/23 15:00	01/16/23 11:55
880-23720-22	S4 3'	Solid	01/12/23 15:05	01/16/23 11:55
880-23720-23	S4 5'	Solid	01/12/23 15:10	01/16/23 11:55
880-23720-24	S4 6'	Solid	01/12/23 15:15	01/16/23 11:55
880-23720-25	S5 1'	Solid	01/12/23 15:30	01/16/23 11:55
880-23720-26	S5 3'	Solid	01/12/23 15:35	01/16/23 11:55
880-23720-27	S5 5'	Solid	01/12/23 15:40	01/16/23 11:55
880-23720-28	S5 10'	Solid	01/12/23 15:45	01/16/23 11:55
880-23720-29	S11 1'	Solid	01/12/23 16:00	01/16/23 11:55
880-23720-30	S11 3'	Solid	01/12/23 16:05	01/16/23 11:55
880-23720-31	S11 5'	Solid	01/12/23 16:10	01/16/23 11:55
880-23720-32	S11 6'	Solid	01/12/23 16:15	01/16/23 11:55
880-23720-33	S9 1'	Solid	01/12/23 16:30	01/16/23 11:55
880-23720-34	S9 3'	Solid	01/12/23 16:35	01/16/23 11:55
880-23720-35	S9 5'	Solid	01/12/23 16:40	01/16/23 11:55
880-23720-36	S10 1'	Solid	01/12/23 16:45	01/16/23 11:55
880-23720-37	S10 3'	Solid	01/12/23 16:50	01/16/23 11:55
880-23720-38	S10 5'	Solid	01/12/23 16:55	01/16/23 11:55
880-23720-39	S10 7'	Solid	01/12/23 17:00	01/16/23 11:55
880-23720-40	S27 1'	Solid	01/13/23 07:00	01/16/23 11:55
880-23720-41	S27 3'	Solid	01/13/23 07:05	01/16/23 11:55
880-23720-42	S27 5'	Solid	01/13/23 07:10	01/16/23 11:55
880-23720-43	S28 1'	Solid	01/13/23 07:15	01/16/23 11:55
880-23720-44	S28 3'	Solid	01/13/23 07:20	01/16/23 11:55
880-23720-45	S28 5'	Solid	01/13/23 07:25	01/16/23 11:55
880-23720-46	S28 7'	Solid	01/13/23 07:30	01/16/23 11:55
880-23720-47	S29 1'	Solid	01/13/23 07:35	01/16/23 11:55
880-23720-48	S29 3'	Solid	01/13/23 07:40	01/16/23 11:55
880-23720-49	S29 5'	Solid	01/13/23 07:45	01/16/23 11:55
880-23720-50	S29 7'	Solid	01/13/23 07:50	01/16/23 11:55
880-23720-51	S30 1'	Solid	01/13/23 07:55	01/16/23 11:55
880-23720-52	S30 3'	Solid	01/13/23 08:00	01/16/23 11:55
880-23720-53	S30 5'	Solid	01/13/23 08:05	01/16/23 11:55
880-23720-54	S30 7'	Solid	01/13/23 08:10	01/16/23 11:55
880-23720-55	S31 1'	Solid	01/13/23 08:15	01/16/23 11:55

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23720-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23720-56	S31 3'	Solid	01/13/23 08:20	01/16/23 11:55
880-23720-57	S31 5'	Solid	01/13/23 08:25	01/16/23 11:55
880-23720-58	S31 6.5'	Solid	01/13/23 08:30	01/16/23 11:55
880-23720-59	S32 1'	Solid	01/13/23 08:35	01/16/23 11:55
880-23720-60	S32 3'	Solid	01/13/23 08:40	01/16/23 11:55
880-23720-61	S32 5'	Solid	01/13/23 08:45	01/16/23 11:55
880-23720-62	S32 10'	Solid	01/13/23 08:50	01/16/23 11:55
880-23720-63	S33 1'	Solid	01/13/23 08:55	01/16/23 11:55
880-23720-64	S33 3'	Solid	01/13/23 09:00	01/16/23 11:55
880-23720-65	S33 5'	Solid	01/13/23 09:05	01/16/23 11:55
880-23720-66	S33 10'	Solid	01/13/23 09:10	01/16/23 11:55
880-23720-67	S37 1'	Solid	01/13/23 09:15	01/16/23 11:55
880-23720-68	S37 3'	Solid	01/13/23 09:20	01/16/23 11:55
880-23720-69	S37 5'	Solid	01/13/23 09:25	01/16/23 11:55
880-23720-70	S37 7'	Solid	01/13/23 09:30	01/16/23 11:55
880-23720-71	West	Solid	01/13/23 09:35	01/16/23 11:55

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23720 No. 2908

CHAIN-OF-CUSTODY

Rev. 1 2/1/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 1 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107-02 COLLECTOR JH : RN

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CHLORIDES ☒ ANIONS ☐	PECHLORATE ☐	ALKALINITY ☐	FIELD NOTES
S20 1'		1-12-23	1230	S	1				X		X		X	X	X																		X		202
3'			1235																																
5'			1240																																
10'			1245																																
13'			1250																																
S26 1'			1300																																
3'			1305																																
5'			1310																																
10'			1315																																
S25 1'			1330																																
3'			1335																																
5'			1340																																
10'			1345																																
S24 1'			1400																																
3'		1-12-23	1405	S	1				X		X		X	X	X																		X		

880-23720 Chain of Custody

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/16 1155	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.5/5.3 THERM# IR8-36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

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Received by OCD: 8/9/2024 11:39:35 AM

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23720 No. 2909

CHAIN-OF-CUSTODY

(Rev. 1) 2/1/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 2 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107-02 COLLECTOR JH / RN

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/NM

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | CYANIDE ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S24 6'		1-12-23	1410	S	1				X		X	X
S15 1'			1430									
3'			1435									
5'			1440									
10'			1445									
S4 1'			1500									
3'			1505									
5'			1510									
6'			1515									
S5 1'			1530									
3'			1535									
5'			1540									
10'			1545									
S6 1'			1600									
3'		1-12-23	1605	S	1				X		X	X

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/16 1155	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

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

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Received by OCD: 8/9/2024 11:39:35 AM

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23720 No. 2910

CHAIN-OF-CUSTODY

(Rev. 1) 2/1/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 3 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pitney Elder

LAI PROJECT # 22-0107-02 COLLECTOR JH / RN

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/NM

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
56 5'		1-12-23	1610	S	1				X		X	X X X X
6'			1615									
59 1'			1630									
3'			1635									
5'			1640									
510 1'			1645									
3'			1650									
5'			1655									
7'		1-12-23	1700									
527 1'		1-13-23	700									
3'			705									
5'			710									
528 1'			715									
3'			720									
5'		1-13-23	725	S	1				X		X	X X X X

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/16 1155	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

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Received by OCD: 8/9/2024 11:39:35 AM

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23720

No. 2911

CHAIN-OF-CUSTODY

(Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 4 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Piney Elder

LAI PROJECT # 22-0107-02 COLLECTOR: JH / RN

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☑ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☑ | DIESEL - MOD 8015 ☑ | OIL - MOD 8015 ☑ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX MTBE	TRPH	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260	SVOC 8270 PAH 8270 HOLDPAH	8081 PESTICIDES 8151 HERBICIDES	8082 PCBS	TCLP - METALS (RCRA) TCLP VOC	TCLP - PEST HERB Semi-VOC	TOTAL METALS (RCRA) OTHER LIST	LEAD - TOTAL D W 200.8 TCLP	RCI TOX FLASHPOINT	TDS TSS % MOISTURE CYANIDE	pH HEXAVALENT CHROMIUM	EXPLOSIVES PECHLORATE	CHLORIDES ANIONS ALKALINITY	FIELD NOTES
528 7'		1-13-23	730	S	1				X		X		X	X	X												X		
529 1'			735																										
3'			740																										
5'			745																										
7'			750																										
530 1'			755																										
3'			800																										
5'			805																										
7'			810																										
531 1'			815																										
3'			820																										
5'			825																										
6.5'			830																										
532 1'			835																										
3'		1-13-23	840	S	1				X		X		X	X	X												X		

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME 1/16 1655	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

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

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Received by OCD: 8/9/2024 11:39:35 AM
2/1/2023
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Released to Imaging: 9/30/2024 4:19:02 PM

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23720

No. 2912

CHAIN-OF-CUSTODY

2/1/2023 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 5 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107-02 COLLECTOR JH : RN

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	FIELD NOTES
532 5'		1-13-23	845	S	1				X		
10'			850								
533 1'			855								
3'			900								
5'			905								
10'			910								
537 1'			915								
3'			920								
5'			925								
7'			930								
West		1-13-23	935	S	1				X		

Loc: 880
23720

TOTAL 11

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/16	1155
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

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

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23720-1
SDG Number: 22-0107-02

Login Number: 23720
List Number: 1
Creator: Rodriguez, Leticia

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	

Received by OCD: 8/9/2024 11:39:35 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/2/2023 5:21:22 PM

JOB DESCRIPTION

Pliney Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-23897-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Released to Imaging: 9/30/2024 4:19:02 PM

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

Holly Taylor

Generated
2/2/2023 5:21:22 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Laboratory Job ID: 880-23897-1
SDG: 22-0107-02

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Released to Imaging: 9/30/2024 4:19:02 PM

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1-	Surrogate recovery exceeds control limits, low biased.
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)

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Job ID: 880-23897-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23897-1

Receipt
The samples were received on 1/19/2023 8:47 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 time was 0.2°C

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

Samples S-31 4" and S-34 4" were on the chain of custody; however there were no jars received. Client was contacted by emai twice with no response so tests were cancelled.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-31 1' (880-23897-1), S-31 3' (880-23897-2), S-34 1' (880-23897-4), S-34 3' (880-23897-5), S-35 1' (880-23897-6), S-35 3' (880-23897-7), S-36 1' (880-23897-8), S-36 3' (880-23897-9), S-36 5' (880-23897-10), S-36 7' (880-23897-11), S-38 1' (880-23897-12), S-38 3' (880-23897-13), S-38 5' (880-23897-14), S-38 10' (880-23897-15), S-39 1' (880-23897-16), S-39 3' (880-23897-17), S-40 1' (880-23897-18), S-40 3' (880-23897-19), S-40 5' (880-23897-20), S-40 7' (880-23897-21) and (MB 880-44907/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44627 and analytical batch 880-44889 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: (LCS 880-44627/1-A) and (LCSD 880-44627/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-43 3' (880-23897-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-44925 and analytical batch 880-44988 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45125 and analytical batch 880-45101 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-45089 and analytical batch 880-45165 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-31 1' (880-23897-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44704

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Job ID: 880-23897-1 (Continued)

Laboratory: Eurofins Midland (Continued)

and analytical batch 880-44799 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_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44707 and analytical batch 880-44800 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.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-31 1'

Date Collected: 01/17/23 15:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/24/23 12:21	01/28/23 21:14	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		01/24/23 12:21	01/28/23 21:14	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/24/23 12:21	01/28/23 21:14	1
m,p-Xylenes	<0.00401	U F2 F1	0.00401		mg/Kg		01/24/23 12:21	01/28/23 21:14	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		01/24/23 12:21	01/28/23 21:14	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		01/24/23 12:21	01/28/23 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 21:14*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/24/23 12:21*	*01/28/23 21:14*	*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			01/30/23 12:32	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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 19:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*68*	*S1-*	*70 - 130*	*01/30/23 16:08*	*02/01/23 19:18*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/30/23 16:08*	*02/01/23 19:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**396**	**F1**	5.05		mg/Kg			01/26/23 06:42	1

Client Sample ID: S-31 3'

Date Collected: 01/17/23 15:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-2

Matrix: Solid

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		01/24/23 12:21	01/28/23 21:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 21:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 21:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 21:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 21:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*01/24/23 12:21*	*01/28/23 21:41*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*01/24/23 12:21*	*01/28/23 21:41*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-31 3'

Date Collected: 01/17/23 15:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-2

Matrix: Solid

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			01/30/23 12:32	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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:08	02/01/23 19:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:08	02/01/23 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/30/23 16:08*	*02/01/23 19:39*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*01/30/23 16:08*	*02/01/23 19:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.9**		4.97		mg/Kg			01/26/23 06:56	1

Client Sample ID: S-34 1'

Date Collected: 01/17/23 10:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-4

Matrix: Solid

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		01/24/23 12:21	01/28/23 22:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 22:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 22:09*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/24/23 12:21*	*01/28/23 22:09*	*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			01/30/23 12:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**181**		50.0		mg/Kg			02/02/23 12:15	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		01/30/23 16:04	02/01/23 19:06	1
Diesel Range Organics (Over C10-C28)	**181**		50.0		mg/Kg		01/30/23 16:04	02/01/23 19:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-34 1'
Date Collected: 01/17/23 10:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:04	02/01/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/30/23 16:04*	*02/01/23 19:06*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*01/30/23 16:04*	*02/01/23 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		25.0		mg/Kg			01/26/23 07:01	5

Client Sample ID: S-34 3'
Date Collected: 01/17/23 10:03
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-5
Matrix: Solid

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		01/24/23 12:21	01/28/23 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 22:36*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/24/23 12:21*	*01/28/23 22:36*	*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			01/30/23 12:32	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			02/01/23 09:57	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		01/31/23 13:01	01/31/23 22:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 22:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:09*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.4**		4.98		mg/Kg			01/26/23 07:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-35 1'

Date Collected: 01/16/23 13:20
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-6

Matrix: Solid

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		01/24/23 12:21	01/28/23 23:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 23:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 23:02*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/24/23 12:21*	*01/28/23 23:02*	*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			01/30/23 12:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**137**		50.0		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 11:05	1
Diesel Range Organics (Over C10-C28)	**137**		50.0		mg/Kg		01/30/23 16:00	02/01/23 11:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/30/23 16:00*	*02/01/23 11:05*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/30/23 16:00*	*02/01/23 11:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2060**		24.8		mg/Kg			01/26/23 07:11	5

Client Sample ID: S-35 3'

Date Collected: 01/16/23 13:21
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-7

Matrix: Solid

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		01/24/23 12:21	01/28/23 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/28/23 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/28/23 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 23:29*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/24/23 12:21*	*01/28/23 23:29*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-35 3'
Date Collected: 01/16/23 13:21
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-7
Matrix: Solid

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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:12*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		4.95		mg/Kg			01/26/23 07:25	1

Client Sample ID: S-36 1'
Date Collected: 01/17/23 09:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-8
Matrix: Solid

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		01/24/23 12:21	01/28/23 23:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 23:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 23:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/28/23 23:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 23:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/28/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/28/23 23:55*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/24/23 12:21*	*01/28/23 23:55*	*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			01/30/23 12:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.9**		50.0		mg/Kg			02/01/23 09:57	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		01/31/23 13:01	01/31/23 22:31	1
Diesel Range Organics (Over C10-C28)	**85.9**		50.0		mg/Kg		01/31/23 13:01	01/31/23 22:31	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-36 1'
Date Collected: 01/17/23 09:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/23 13:01	01/31/23 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:31*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		5.01		mg/Kg			01/26/23 07:30	1

Client Sample ID: S-36 3'
Date Collected: 01/17/23 09:32
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-9
Matrix: Solid

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		01/24/23 12:21	01/29/23 00:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 00:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 00:22	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/24/23 12:21	01/29/23 00:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 00:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/24/23 12:21	01/29/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 00:22*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/24/23 12:21*	*01/29/23 00:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/30/23 12:32	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			02/01/23 09:57	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		01/31/23 13:01	01/31/23 22:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/23 13:01	01/31/23 22:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/23 13:01	01/31/23 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:54*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/31/23 13:01*	*01/31/23 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		5.04		mg/Kg			01/26/23 07:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-36 5'

Date Collected: 01/17/23 09:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-10

Matrix: Solid

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		01/24/23 12:21	01/29/23 00:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 00:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 00:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/29/23 00:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 00:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/29/23 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*204*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/24/23 12:21*	*01/29/23 00:48*	*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			01/30/23 12:32	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			02/01/23 09:57	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		01/31/23 13:01	01/31/23 23:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/31/23 13:01*	*01/31/23 23:16*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/31/23 13:01*	*01/31/23 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**391**		4.99		mg/Kg			01/26/23 07:40	1

Client Sample ID: S-36 7'

Date Collected: 01/17/23 09:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-11

Matrix: Solid

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		01/24/23 12:21	01/29/23 01:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 01:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 01:15	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 01:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 01:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 01:15*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/24/23 12:21*	*01/29/23 01:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-36 7'

Date Collected: 01/17/23 09:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-11

Matrix: Solid

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			01/30/23 12:32	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			02/01/23 09:57	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		01/31/23 13:01	01/31/23 23:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 23:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*01/31/23 13:01*	*01/31/23 23:37*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/31/23 13:01*	*01/31/23 23:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		5.03		mg/Kg			01/26/23 07:45	1

Client Sample ID: S-38 1'

Date Collected: 01/16/23 11:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-12

Matrix: Solid

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		01/24/23 12:21	01/29/23 03:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 03:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 03:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 03:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 03:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 03:02*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*01/24/23 12:21*	*01/29/23 03:02*	*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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 12:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 12:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-38 1'

Date Collected: 01/16/23 11:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:34*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**595**		5.04		mg/Kg			01/26/23 07:50	1

Client Sample ID: S-38 3'

Date Collected: 01/16/23 11:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-13

Matrix: Solid

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		01/24/23 12:21	01/29/23 03:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:28	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/24/23 12:21	01/29/23 03:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/24/23 12:21	01/29/23 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 03:28*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/24/23 12:21*	*01/29/23 03:28*	*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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 12:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 12:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:56*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*01/30/23 16:00*	*02/01/23 12:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		4.99		mg/Kg			01/26/23 08:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-38 5'

Date Collected: 01/16/23 11:40
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-14

Matrix: Solid

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		01/24/23 12:21	01/29/23 03:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:55	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/24/23 12:21	01/29/23 03:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:21	01/29/23 03:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/24/23 12:21	01/29/23 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 03:55*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/24/23 12:21*	*01/29/23 03:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 13:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/30/23 16:00*	*02/01/23 13:18*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/30/23 16:00*	*02/01/23 13:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.9**		4.98		mg/Kg			01/26/23 08:09	1

Client Sample ID: S-38 10'

Date Collected: 01/16/23 11:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-15

Matrix: Solid

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		01/24/23 12:21	01/29/23 04:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 04:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 04:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/24/23 12:21	01/29/23 04:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 04:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 12:21	01/29/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*196*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 04:22*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/24/23 12:21*	*01/29/23 04:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-38 10'

Date Collected: 01/16/23 11:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-15

Matrix: Solid

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			01/30/23 12:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.8**		49.9		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 13:41	1
Diesel Range Organics (Over C10-C28)	**64.8**		49.9		mg/Kg		01/30/23 16:00	02/01/23 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*01/30/23 16:00*	*02/01/23 13:41*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/30/23 16:00*	*02/01/23 13:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.2**		5.00		mg/Kg			01/26/23 08:24	1

Client Sample ID: S-39 1'

Date Collected: 01/16/23 14:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-16

Matrix: Solid

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		01/24/23 12:21	01/29/23 04:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 04:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 04:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 04:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:21	01/29/23 04:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 12:21	01/29/23 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 04:48*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/24/23 12:21*	*01/29/23 04:48*	*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			01/30/23 12:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**256**		49.9		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 14:03	1
Diesel Range Organics (Over C10-C28)	**256**		49.9		mg/Kg		01/30/23 16:00	02/01/23 14:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-39 1'
Date Collected: 01/16/23 14:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:03*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**628**		4.95		mg/Kg			01/26/23 08:28	1

Client Sample ID: S-39 3'
Date Collected: 01/16/23 14:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-17
Matrix: Solid

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		01/24/23 12:21	01/29/23 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 05:15	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/29/23 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 05:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/29/23 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 05:15*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/24/23 12:21*	*01/29/23 05:15*	*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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 14:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:25*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.2**		5.02		mg/Kg			01/26/23 08:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-40 1'

Date Collected: 01/16/23 13:34
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-18

Matrix: Solid

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		01/24/23 12:21	01/29/23 05:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:21	01/29/23 05:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:21	01/29/23 05:42	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/24/23 12:21	01/29/23 05:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:21	01/29/23 05:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/24/23 12:21	01/29/23 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*229*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 05:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/24/23 12:21*	*01/29/23 05:42*	*1*

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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 14:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:47*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*01/30/23 16:00*	*02/01/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**		24.9		mg/Kg			01/26/23 08:38	5

Client Sample ID: S-40 3'

Date Collected: 01/16/23 13:35
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-19

Matrix: Solid

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		01/24/23 12:21	01/29/23 06:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 06:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 06:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/29/23 06:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:21	01/29/23 06:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:21	01/29/23 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*181*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 06:08*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/24/23 12:21*	*01/29/23 06:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-40 3'

Date Collected: 01/16/23 13:35
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-19

Matrix: Solid

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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 15:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 15:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/30/23 16:00*	*02/01/23 15:09*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*01/30/23 16:00*	*02/01/23 15:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		4.99		mg/Kg			01/26/23 08:43	1

Client Sample ID: S-40 5'

Date Collected: 01/16/23 13:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-20

Matrix: Solid

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		01/24/23 12:21	01/29/23 06:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 06:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 06:35	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/29/23 06:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 06:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/23 12:21	01/29/23 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*175*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 06:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/24/23 12:21*	*01/29/23 06:35*	*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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 15:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 15:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-40 5'
Date Collected: 01/16/23 13:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/30/23 16:00*	*02/01/23 15:53*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/30/23 16:00*	*02/01/23 15:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**214**		4.95		mg/Kg			01/26/23 08:48	1

Client Sample ID: S-40 7'
Date Collected: 01/16/23 13:56
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-21
Matrix: Solid

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		01/24/23 12:21	01/29/23 07:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 07:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 07:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/24/23 12:21	01/29/23 07:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/29/23 07:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 12:21	01/29/23 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*	*01/24/23 12:21*	*01/29/23 07:02*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/24/23 12:21*	*01/29/23 07:02*	*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			01/30/23 12:32	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 16:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 16:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:15*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.3**		4.96		mg/Kg			01/26/23 08:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-41 1'

Date Collected: 01/16/23 13:01
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-22

Matrix: Solid

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		01/25/23 14:13	01/28/23 03:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 03:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 03:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/25/23 14:13	01/28/23 03:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 03:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/23 14:13	01/28/23 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:14*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:14*	*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			01/30/23 10:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1290**		50.0		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 16:38	1
Diesel Range Organics (Over C10-C28)	**1290**		50.0		mg/Kg		01/30/23 16:00	02/01/23 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:38*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2410**	**F1**	25.1		mg/Kg			01/26/23 09:26	5

Client Sample ID: S-41 3'

Date Collected: 01/16/23 13:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-23

Matrix: Solid

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		01/25/23 14:13	01/28/23 03:34	1
Toluene	**0.0459**		0.00201		mg/Kg		01/25/23 14:13	01/28/23 03:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/25/23 14:13	01/28/23 03:34	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/25/23 14:13	01/28/23 03:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/25/23 14:13	01/28/23 03:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/25/23 14:13	01/28/23 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:34*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-41 3'
Date Collected: 01/16/23 13:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-23
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0459**		0.00402		mg/Kg			01/30/23 10:47	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:00	02/01/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:59*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*01/30/23 16:00*	*02/01/23 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		4.97		mg/Kg			01/26/23 09:44	1

Client Sample ID: S-42 1'
Date Collected: 01/16/23 12:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-24
Matrix: Solid

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		01/25/23 14:13	01/28/23 03:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/23 14:13	01/28/23 03:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/23 14:13	01/28/23 03:55	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/25/23 14:13	01/28/23 03:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/23 14:13	01/28/23 03:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/25/23 14:13	01/28/23 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:55*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/25/23 14:13*	*01/28/23 03:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/30/23 10:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**78.7**		49.9		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 17:19	1
Diesel Range Organics (Over C10-C28)	**78.7**		49.9		mg/Kg		01/30/23 16:00	02/01/23 17:19	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-42 1'
Date Collected: 01/16/23 12:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*01/30/23 16:00*	*02/01/23 17:19*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/30/23 16:00*	*02/01/23 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2840**		25.0		mg/Kg			01/26/23 09:50	5

Client Sample ID: S-42 3'
Date Collected: 01/16/23 12:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-25
Matrix: Solid

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		01/25/23 14:13	01/28/23 04:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/25/23 14:13	01/28/23 04:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/25/23 14:13	01/28/23 04:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/25/23 14:13	01/28/23 04:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/25/23 14:13	01/28/23 04:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/25/23 14:13	01/28/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:16*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:16*	*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			01/30/23 10:47	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 17:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 17:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*01/30/23 16:00*	*02/01/23 17:40*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*01/30/23 16:00*	*02/01/23 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1460**		25.3		mg/Kg			01/26/23 15:45	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-42 5'

Date Collected: 01/16/23 12:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-26

Matrix: Solid

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		01/25/23 14:13	01/28/23 04:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 04:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 04:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/25/23 14:13	01/28/23 04:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 04:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/23 14:13	01/28/23 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:36*	*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			01/30/23 10:47	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 18:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:02*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**682**		5.04		mg/Kg			01/26/23 10:03	1

Client Sample ID: S-43 1'

Date Collected: 01/16/23 12:01
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-27

Matrix: Solid

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		01/25/23 14:13	01/28/23 04:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/25/23 14:13	01/28/23 04:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/25/23 14:13	01/28/23 04:57	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/25/23 14:13	01/28/23 04:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/25/23 14:13	01/28/23 04:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/25/23 14:13	01/28/23 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:57*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/25/23 14:13*	*01/28/23 04:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-43 1'

Date Collected: 01/16/23 12:01
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-27

Matrix: Solid

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			01/30/23 10:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**168**		49.9		mg/Kg			02/02/23 12:39	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		01/30/23 16:00	02/01/23 18:23	1
Diesel Range Organics (Over C10-C28)	**168**		49.9		mg/Kg		01/30/23 16:00	02/01/23 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:23*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1110**		25.0		mg/Kg			01/26/23 10:21	5

Client Sample ID: S-43 3'

Date Collected: 01/16/23 12:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		01/27/23 12:27	01/30/23 19:04	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		01/27/23 12:27	01/30/23 19:04	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		01/27/23 12:27	01/30/23 19:04	1
m,p-Xylenes	<0.00402	U *- *1	0.00402		mg/Kg		01/27/23 12:27	01/30/23 19:04	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		01/27/23 12:27	01/30/23 19:04	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		01/27/23 12:27	01/30/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/27/23 12:27*	*01/30/23 19:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/27/23 12:27*	*01/30/23 19:04*	*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			01/30/23 10:47	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			02/02/23 12:39	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		01/30/23 16:00	02/01/23 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 18:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-43 3'

Date Collected: 01/16/23 12:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-28

Matrix: Solid

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)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:45*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/30/23 16:00*	*02/01/23 18:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		5.00		mg/Kg			01/26/23 10:27	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-23897-1	S-31 1'	167 S1+	82
880-23897-1 MS	S-31 1'	155 S1+	94
880-23897-1 MSD	S-31 1'	172 S1+	104
880-23897-2	S-31 3'	122	76
880-23897-4	S-34 1'	169 S1+	81
880-23897-5	S-34 3'	186 S1+	82
880-23897-6	S-35 1'	170 S1+	84
880-23897-7	S-35 3'	177 S1+	77
880-23897-8	S-36 1'	179 S1+	85
880-23897-9	S-36 3'	170 S1+	84
880-23897-10	S-36 5'	204 S1+	90
880-23897-11	S-36 7'	158 S1+	78
880-23897-12	S-38 1'	172 S1+	76
880-23897-13	S-38 3'	148 S1+	72
880-23897-14	S-38 5'	189 S1+	80
880-23897-15	S-38 10'	196 S1+	89
880-23897-16	S-39 1'	188 S1+	86
880-23897-17	S-39 3'	197 S1+	81
880-23897-18	S-40 1'	229 S1+	101
880-23897-19	S-40 3'	181 S1+	79
880-23897-20	S-40 5'	175 S1+	81
880-23897-21	S-40 7'	189 S1+	78
880-23897-22	S-41 1'	103	116
880-23897-23	S-41 3'	111	121
880-23897-24	S-42 1'	104	117
880-23897-25	S-42 3'	109	119
880-23897-26	S-42 5'	100	98
880-23897-27	S-43 1'	112	118
880-23897-28	S-43 3'	63 S1-	97
LCS 880-44627/1-A	Lab Control Sample	170 S1+	95
LCS 880-44733/1-A	Lab Control Sample	96	113
LCS 880-44925/1-A	Lab Control Sample	101	103
LCSD 880-44627/2-A	Lab Control Sample Dup	169 S1+	92
LCSD 880-44733/2-A	Lab Control Sample Dup	94	115
LCSD 880-44925/2-A	Lab Control Sample Dup	93	109
MB 880-44627/5-A	Method Blank	115	77
MB 880-44733/5-A	Method Blank	98	113
MB 880-44890/5-A	Method Blank	101	110
MB 880-44907/5-A	Method Blank	102	85
MB 880-44925/5-A	Method Blank	71	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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)
880-23897-1	S-31 1'	68 S1-	72
880-23897-2	S-31 3'	69 S1-	73
880-23897-4	S-34 1'	98	107
880-23897-5	S-34 3'	93	90
880-23897-6	S-35 1'	91	88
880-23897-6 MS	S-35 1'	109	98
880-23897-6 MSD	S-35 1'	105	91
880-23897-7	S-35 3'	107	99
880-23897-8	S-36 1'	101	97
880-23897-9	S-36 3'	93	90
880-23897-10	S-36 5'	98	95
880-23897-11	S-36 7'	110	103
880-23897-12	S-38 1'	87	83
880-23897-13	S-38 3'	87	83
880-23897-14	S-38 5'	88	84
880-23897-15	S-38 10'	83	79
880-23897-16	S-39 1'	88	80
880-23897-17	S-39 3'	87	82
880-23897-18	S-40 1'	88	86
880-23897-19	S-40 3'	85	83
880-23897-20	S-40 5'	85	85
880-23897-21	S-40 7'	97	87
880-23897-22	S-41 1'	87	88
880-23897-23	S-41 3'	103	97
880-23897-24	S-42 1'	105	102
880-23897-25	S-42 3'	107	105
880-23897-26	S-42 5'	89	91
880-23897-27	S-43 1'	89	92
880-23897-28	S-43 3'	93	95
LCS 880-45085/2-A	Lab Control Sample	99	92
LCS 880-45089/2-A	Lab Control Sample	84	89
LCS 880-45125/2-A	Lab Control Sample	112	102
LCSD 880-45085/3-A	Lab Control Sample Dup	115	99
LCSD 880-45089/3-A	Lab Control Sample Dup	75	73
LCSD 880-45125/3-A	Lab Control Sample Dup	89	94
MB 880-45085/1-A	Method Blank	112	115
MB 880-45089/1-A	Method Blank	94	111
MB 880-45125/1-A	Method Blank	141 S1+	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44627/5-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44627

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 20:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 20:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 20:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/24/23 12:21	01/28/23 20:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:21	01/28/23 20:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/23 12:21	01/28/23 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/24/23 12:21*	*01/28/23 20:46*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/24/23 12:21*	*01/28/23 20:46*	*1*

Lab Sample ID: LCS 880-44627/1-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44627

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09897		mg/Kg		99	70 - 130		
Toluene			0.100	0.08332		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.08811		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1789		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09644		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-44627/2-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44627

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1061		mg/Kg		106	70 - 130	7	35
Toluene			0.100	0.09283		mg/Kg		93	70 - 130	11	35
Ethylbenzene			0.100	0.09486		mg/Kg		95	70 - 130	7	35
m,p-Xylenes			0.200	0.1905		mg/Kg		95	70 - 130	6	35
o-Xylene			0.100	0.1038		mg/Kg		104	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-23897-1 MS
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: S-31 1'
Prep Type: Total/NA
Prep Batch: 44627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F2 F1	0.0996	0.06554	F1	mg/Kg		66	70 - 130		
Toluene	<0.00200	U F2 F1	0.0996	0.05627	F1	mg/Kg		56	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23897-1 MS
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: S-31 1'
Prep Type: Total/NA
Prep Batch: 44627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.05346	F1	mg/Kg		54	70 - 130
m,p-Xylenes	<0.00401	U F2 F1	0.199	0.08181	F1	mg/Kg		41	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0996	0.06776	F1	mg/Kg		68	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-23897-1 MSD
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: S-31 1'
Prep Type: Total/NA
Prep Batch: 44627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0990	0.1102	F2	mg/Kg		111	70 - 130	51	35
Toluene	<0.00200	U F2 F1	0.0990	0.08671	F2	mg/Kg		88	70 - 130	43	35
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.08356	F2	mg/Kg		84	70 - 130	44	35
m,p-Xylenes	<0.00401	U F2 F1	0.198	0.1264	F2 F1	mg/Kg		64	70 - 130	43	35
o-Xylene	<0.00200	U F2 F1	0.0990	0.09863	F2	mg/Kg		100	70 - 130	37	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-44733/5-A
Matrix: Solid
Analysis Batch: 44898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44733

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 01:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 01:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 01:22	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/25/23 14:13	01/28/23 01:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/23 14:13	01/28/23 01:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/23 14:13	01/28/23 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/25/23 14:13*	*01/28/23 01:22*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*01/25/23 14:13*	*01/28/23 01:22*	*1*

Lab Sample ID: LCS 880-44733/1-A
Matrix: Solid
Analysis Batch: 44898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09258		mg/Kg		93	70 - 130
Toluene	0.100	0.08424		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08036		mg/Kg		80	70 - 130
m,p-Xylenes	0.200	0.1669		mg/Kg		83	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-44733/1-A
Matrix: Solid
Analysis Batch: 44898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44733

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08198		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-44733/2-A
Matrix: Solid
Analysis Batch: 44898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44733

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09657		mg/Kg		97	70 - 130	4	35
Toluene			0.100	0.08844		mg/Kg		88	70 - 130	5	35
Ethylbenzene			0.100	0.08432		mg/Kg		84	70 - 130	5	35
m,p-Xylenes			0.200	0.1745		mg/Kg		87	70 - 130	4	35
o-Xylene			0.100	0.08425		mg/Kg		84	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 880-44890/5-A
Matrix: Solid
Analysis Batch: 44898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44890

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/23 09:13	01/27/23 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/23 09:13	01/27/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/23 09:13	01/27/23 13:07	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/27/23 09:13	01/27/23 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/23 09:13	01/27/23 13:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/23 09:13	01/27/23 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/27/23 09:13*	*01/27/23 13:07*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/27/23 09:13*	*01/27/23 13:07*	*1*

Lab Sample ID: MB 880-44907/5-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44907

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/23 11:13	01/28/23 02:58	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/27/23 11:13	01/28/23 02:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130	01/27/23 11:13	01/28/23 02:58	1

Lab Sample ID: MB 880-44925/5-A
Matrix: Solid
Analysis Batch: 44988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44925

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/23 12:27	01/30/23 12:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/23 12:27	01/30/23 12:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/23 12:27	01/30/23 12:53	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/27/23 12:27	01/30/23 12:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/23 12:27	01/30/23 12:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/23 12:27	01/30/23 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/27/23 12:27	01/30/23 12:53	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/27/23 12:27	01/30/23 12:53	1

Lab Sample ID: LCS 880-44925/1-A
Matrix: Solid
Analysis Batch: 44988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44925

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08717		mg/Kg		87	70 - 130		
Toluene			0.100	0.08268		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.08368		mg/Kg		84	70 - 130		
m,p-Xylenes			0.200	0.1754		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08769		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-44925/2-A
Matrix: Solid
Analysis Batch: 44988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44925

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.05057	*- *1	mg/Kg		51	70 - 130	53	35
Toluene			0.100	0.04357	*- *1	mg/Kg		44	70 - 130	62	35
Ethylbenzene			0.100	0.04001	*- *1	mg/Kg		40	70 - 130	71	35
m,p-Xylenes			0.200	0.08355	*- *1	mg/Kg		42	70 - 130	71	35
o-Xylene			0.100	0.04282	*- *1	mg/Kg		43	70 - 130	69	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-45085/1-A
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45085

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 08:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 08:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:00	02/01/23 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*01/30/23 16:00*	*02/01/23 08:29*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*01/30/23 16:00*	*02/01/23 08:29*	*1*

Lab Sample ID: LCS 880-45085/2-A
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	889.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			999	836.5		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-45085/3-A
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	985.0		mg/Kg		99	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			999	939.6		mg/Kg		94	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*115*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-23897-6 MS
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: S-35 1'
Prep Type: Total/NA
Prep Batch: 45085

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1105		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	137		1000	1072		mg/Kg		94	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: 880-23897-6 MS
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: S-35 1'
Prep Type: Total/NA
Prep Batch: 45085

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-23897-6 MSD
Matrix: Solid
Analysis Batch: 45168

Client Sample ID: S-35 1'
Prep Type: Total/NA
Prep Batch: 45085

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	<50.0	U	998	1076		mg/Kg		106	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	137		998	995.0		mg/Kg		86	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-45089/1-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45089

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/30/23 16:08*	*02/01/23 08:54*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*01/30/23 16:08*	*02/01/23 08:54*	*1*

Lab Sample ID: LCS 880-45089/2-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45089

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	790.8		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			999	809.2		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-45089/3-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45089

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	654.9	*-	mg/Kg		66	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			999	738.8		mg/Kg		74	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*75*		*70 - 130*
o-Terphenyl (Surr)	*73*		*70 - 130*

Lab Sample ID: MB 880-45125/1-A
Matrix: Solid
Analysis Batch: 45101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45125

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 19:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 19:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 13:01	01/31/23 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*01/31/23 13:01*	*01/31/23 19:55*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*01/31/23 13:01*	*01/31/23 19:55*	*1*

Lab Sample ID: LCS 880-45125/2-A
Matrix: Solid
Analysis Batch: 45101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	815.8		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			999	832.9		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-45125/3-A
Matrix: Solid
Analysis Batch: 45101

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	847.0		mg/Kg		85	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			999	783.6		mg/Kg		78	70 - 130	6	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-45125/3-A
Matrix: Solid
Analysis Batch: 45101

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45125

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*89*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44704/1-A
Matrix: Solid
Analysis Batch: 44799

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			01/26/23 06:27	1

Lab Sample ID: LCS 880-44704/2-A
Matrix: Solid
Analysis Batch: 44799

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	266.7		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-44704/3-A
Matrix: Solid
Analysis Batch: 44799

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	260.3		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-23897-1 MS
Matrix: Solid
Analysis Batch: 44799

Client Sample ID: S-31 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	396	F1	253	659.6		mg/Kg		104	90 - 110		

Lab Sample ID: 880-23897-1 MSD
Matrix: Solid
Analysis Batch: 44799

Client Sample ID: S-31 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	396	F1	253	682.0	F1	mg/Kg		113	90 - 110	3	20

Lab Sample ID: 880-23897-12 MS
Matrix: Solid
Analysis Batch: 44799

Client Sample ID: S-38 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	595		252	847.1		mg/Kg		100	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-23897-12 MSD
Matrix: Solid
Analysis Batch: 44799

Client Sample ID: S-38 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	595		252	864.0		mg/Kg		107	90 - 110	2	20

Lab Sample ID: MB 880-44707/1-A
Matrix: Solid
Analysis Batch: 44800

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			01/26/23 09:07	1

Lab Sample ID: LCS 880-44707/2-A
Matrix: Solid
Analysis Batch: 44800

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	271.9		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-44707/3-A
Matrix: Solid
Analysis Batch: 44800

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	271.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-23897-22 MS
Matrix: Solid
Analysis Batch: 44800

Client Sample ID: S-41 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2410	F1	1260	3998	F1	mg/Kg		127	90 - 110		

Lab Sample ID: 880-23897-22 MSD
Matrix: Solid
Analysis Batch: 44800

Client Sample ID: S-41 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2410	F1	1260	4009	F1	mg/Kg		128	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC VOA

Prep Batch: 44627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	5035	
880-23897-2	S-31 3'	Total/NA	Solid	5035	
880-23897-4	S-34 1'	Total/NA	Solid	5035	
880-23897-5	S-34 3'	Total/NA	Solid	5035	
880-23897-6	S-35 1'	Total/NA	Solid	5035	
880-23897-7	S-35 3'	Total/NA	Solid	5035	
880-23897-8	S-36 1'	Total/NA	Solid	5035	
880-23897-9	S-36 3'	Total/NA	Solid	5035	
880-23897-10	S-36 5'	Total/NA	Solid	5035	
880-23897-11	S-36 7'	Total/NA	Solid	5035	
880-23897-12	S-38 1'	Total/NA	Solid	5035	
880-23897-13	S-38 3'	Total/NA	Solid	5035	
880-23897-14	S-38 5'	Total/NA	Solid	5035	
880-23897-15	S-38 10'	Total/NA	Solid	5035	
880-23897-16	S-39 1'	Total/NA	Solid	5035	
880-23897-17	S-39 3'	Total/NA	Solid	5035	
880-23897-18	S-40 1'	Total/NA	Solid	5035	
880-23897-19	S-40 3'	Total/NA	Solid	5035	
880-23897-20	S-40 5'	Total/NA	Solid	5035	
880-23897-21	S-40 7'	Total/NA	Solid	5035	
MB 880-44627/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44627/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44627/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23897-1 MS	S-31 1'	Total/NA	Solid	5035	
880-23897-1 MSD	S-31 1'	Total/NA	Solid	5035	

Prep Batch: 44733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-22	S-41 1'	Total/NA	Solid	5035	
880-23897-23	S-41 3'	Total/NA	Solid	5035	
880-23897-24	S-42 1'	Total/NA	Solid	5035	
880-23897-25	S-42 3'	Total/NA	Solid	5035	
880-23897-26	S-42 5'	Total/NA	Solid	5035	
880-23897-27	S-43 1'	Total/NA	Solid	5035	
MB 880-44733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	8021B	44627
880-23897-2	S-31 3'	Total/NA	Solid	8021B	44627
880-23897-4	S-34 1'	Total/NA	Solid	8021B	44627
880-23897-5	S-34 3'	Total/NA	Solid	8021B	44627
880-23897-6	S-35 1'	Total/NA	Solid	8021B	44627
880-23897-7	S-35 3'	Total/NA	Solid	8021B	44627
880-23897-8	S-36 1'	Total/NA	Solid	8021B	44627
880-23897-9	S-36 3'	Total/NA	Solid	8021B	44627
880-23897-10	S-36 5'	Total/NA	Solid	8021B	44627
880-23897-11	S-36 7'	Total/NA	Solid	8021B	44627
880-23897-12	S-38 1'	Total/NA	Solid	8021B	44627

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 44889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-13	S-38 3'	Total/NA	Solid	8021B	44627
880-23897-14	S-38 5'	Total/NA	Solid	8021B	44627
880-23897-15	S-38 10'	Total/NA	Solid	8021B	44627
880-23897-16	S-39 1'	Total/NA	Solid	8021B	44627
880-23897-17	S-39 3'	Total/NA	Solid	8021B	44627
880-23897-18	S-40 1'	Total/NA	Solid	8021B	44627
880-23897-19	S-40 3'	Total/NA	Solid	8021B	44627
880-23897-20	S-40 5'	Total/NA	Solid	8021B	44627
880-23897-21	S-40 7'	Total/NA	Solid	8021B	44627
MB 880-44627/5-A	Method Blank	Total/NA	Solid	8021B	44627
MB 880-44907/5-A	Method Blank	Total/NA	Solid	8021B	44907
LCS 880-44627/1-A	Lab Control Sample	Total/NA	Solid	8021B	44627
LCSD 880-44627/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44627
880-23897-1 MS	S-31 1'	Total/NA	Solid	8021B	44627
880-23897-1 MSD	S-31 1'	Total/NA	Solid	8021B	44627

Prep Batch: 44890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44890/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-22	S-41 1'	Total/NA	Solid	8021B	44733
880-23897-23	S-41 3'	Total/NA	Solid	8021B	44733
880-23897-24	S-42 1'	Total/NA	Solid	8021B	44733
880-23897-25	S-42 3'	Total/NA	Solid	8021B	44733
880-23897-26	S-42 5'	Total/NA	Solid	8021B	44733
880-23897-27	S-43 1'	Total/NA	Solid	8021B	44733
MB 880-44733/5-A	Method Blank	Total/NA	Solid	8021B	44733
MB 880-44890/5-A	Method Blank	Total/NA	Solid	8021B	44890
LCS 880-44733/1-A	Lab Control Sample	Total/NA	Solid	8021B	44733
LCSD 880-44733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44733

Prep Batch: 44907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44907/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 44925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-28	S-43 3'	Total/NA	Solid	5035	
MB 880-44925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-28	S-43 3'	Total/NA	Solid	8021B	44925
MB 880-44925/5-A	Method Blank	Total/NA	Solid	8021B	44925
LCS 880-44925/1-A	Lab Control Sample	Total/NA	Solid	8021B	44925
LCSD 880-44925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44925

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 45033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	Total BTEX	
880-23897-2	S-31 3'	Total/NA	Solid	Total BTEX	
880-23897-4	S-34 1'	Total/NA	Solid	Total BTEX	
880-23897-5	S-34 3'	Total/NA	Solid	Total BTEX	
880-23897-6	S-35 1'	Total/NA	Solid	Total BTEX	
880-23897-7	S-35 3'	Total/NA	Solid	Total BTEX	
880-23897-8	S-36 1'	Total/NA	Solid	Total BTEX	
880-23897-9	S-36 3'	Total/NA	Solid	Total BTEX	
880-23897-10	S-36 5'	Total/NA	Solid	Total BTEX	
880-23897-11	S-36 7'	Total/NA	Solid	Total BTEX	
880-23897-12	S-38 1'	Total/NA	Solid	Total BTEX	
880-23897-13	S-38 3'	Total/NA	Solid	Total BTEX	
880-23897-14	S-38 5'	Total/NA	Solid	Total BTEX	
880-23897-15	S-38 10'	Total/NA	Solid	Total BTEX	
880-23897-16	S-39 1'	Total/NA	Solid	Total BTEX	
880-23897-17	S-39 3'	Total/NA	Solid	Total BTEX	
880-23897-18	S-40 1'	Total/NA	Solid	Total BTEX	
880-23897-19	S-40 3'	Total/NA	Solid	Total BTEX	
880-23897-20	S-40 5'	Total/NA	Solid	Total BTEX	
880-23897-21	S-40 7'	Total/NA	Solid	Total BTEX	
880-23897-22	S-41 1'	Total/NA	Solid	Total BTEX	
880-23897-23	S-41 3'	Total/NA	Solid	Total BTEX	
880-23897-24	S-42 1'	Total/NA	Solid	Total BTEX	
880-23897-25	S-42 3'	Total/NA	Solid	Total BTEX	
880-23897-26	S-42 5'	Total/NA	Solid	Total BTEX	
880-23897-27	S-43 1'	Total/NA	Solid	Total BTEX	
880-23897-28	S-43 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-6	S-35 1'	Total/NA	Solid	8015NM Prep	
880-23897-7	S-35 3'	Total/NA	Solid	8015NM Prep	
880-23897-12	S-38 1'	Total/NA	Solid	8015NM Prep	
880-23897-13	S-38 3'	Total/NA	Solid	8015NM Prep	
880-23897-14	S-38 5'	Total/NA	Solid	8015NM Prep	
880-23897-15	S-38 10'	Total/NA	Solid	8015NM Prep	
880-23897-16	S-39 1'	Total/NA	Solid	8015NM Prep	
880-23897-17	S-39 3'	Total/NA	Solid	8015NM Prep	
880-23897-18	S-40 1'	Total/NA	Solid	8015NM Prep	
880-23897-19	S-40 3'	Total/NA	Solid	8015NM Prep	
880-23897-20	S-40 5'	Total/NA	Solid	8015NM Prep	
880-23897-21	S-40 7'	Total/NA	Solid	8015NM Prep	
880-23897-22	S-41 1'	Total/NA	Solid	8015NM Prep	
880-23897-23	S-41 3'	Total/NA	Solid	8015NM Prep	
880-23897-24	S-42 1'	Total/NA	Solid	8015NM Prep	
880-23897-25	S-42 3'	Total/NA	Solid	8015NM Prep	
880-23897-26	S-42 5'	Total/NA	Solid	8015NM Prep	
880-23897-27	S-43 1'	Total/NA	Solid	8015NM Prep	
880-23897-28	S-43 3'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Prep Batch: 45085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45085/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45085/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23897-6 MS	S-35 1'	Total/NA	Solid	8015NM Prep	
880-23897-6 MSD	S-35 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 45087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-4	S-34 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 45089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	8015NM Prep	
880-23897-2	S-31 3'	Total/NA	Solid	8015NM Prep	
MB 880-45089/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45089/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45089/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-5	S-34 3'	Total/NA	Solid	8015B NM	45125
880-23897-8	S-36 1'	Total/NA	Solid	8015B NM	45125
880-23897-9	S-36 3'	Total/NA	Solid	8015B NM	45125
880-23897-10	S-36 5'	Total/NA	Solid	8015B NM	45125
880-23897-11	S-36 7'	Total/NA	Solid	8015B NM	45125
MB 880-45125/1-A	Method Blank	Total/NA	Solid	8015B NM	45125
LCS 880-45125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45125
LCSD 880-45125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45125

Prep Batch: 45125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-5	S-34 3'	Total/NA	Solid	8015NM Prep	
880-23897-8	S-36 1'	Total/NA	Solid	8015NM Prep	
880-23897-9	S-36 3'	Total/NA	Solid	8015NM Prep	
880-23897-10	S-36 5'	Total/NA	Solid	8015NM Prep	
880-23897-11	S-36 7'	Total/NA	Solid	8015NM Prep	
MB 880-45125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	8015B NM	45089
880-23897-2	S-31 3'	Total/NA	Solid	8015B NM	45089
MB 880-45089/1-A	Method Blank	Total/NA	Solid	8015B NM	45089
LCS 880-45089/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45089
LCSD 880-45089/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45089

Analysis Batch: 45168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-6	S-35 1'	Total/NA	Solid	8015B NM	45085

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 45168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-7	S-35 3'	Total/NA	Solid	8015B NM	45085
880-23897-12	S-38 1'	Total/NA	Solid	8015B NM	45085
880-23897-13	S-38 3'	Total/NA	Solid	8015B NM	45085
880-23897-14	S-38 5'	Total/NA	Solid	8015B NM	45085
880-23897-15	S-38 10'	Total/NA	Solid	8015B NM	45085
880-23897-16	S-39 1'	Total/NA	Solid	8015B NM	45085
880-23897-17	S-39 3'	Total/NA	Solid	8015B NM	45085
880-23897-18	S-40 1'	Total/NA	Solid	8015B NM	45085
880-23897-19	S-40 3'	Total/NA	Solid	8015B NM	45085
880-23897-20	S-40 5'	Total/NA	Solid	8015B NM	45085
880-23897-21	S-40 7'	Total/NA	Solid	8015B NM	45085
880-23897-22	S-41 1'	Total/NA	Solid	8015B NM	45085
880-23897-23	S-41 3'	Total/NA	Solid	8015B NM	45085
880-23897-24	S-42 1'	Total/NA	Solid	8015B NM	45085
880-23897-25	S-42 3'	Total/NA	Solid	8015B NM	45085
880-23897-26	S-42 5'	Total/NA	Solid	8015B NM	45085
880-23897-27	S-43 1'	Total/NA	Solid	8015B NM	45085
880-23897-28	S-43 3'	Total/NA	Solid	8015B NM	45085
MB 880-45085/1-A	Method Blank	Total/NA	Solid	8015B NM	45085
LCS 880-45085/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45085
LCSD 880-45085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45085
880-23897-6 MS	S-35 1'	Total/NA	Solid	8015B NM	45085
880-23897-6 MSD	S-35 1'	Total/NA	Solid	8015B NM	45085

Analysis Batch: 45170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-4	S-34 1'	Total/NA	Solid	8015B NM	45087

Analysis Batch: 45173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Total/NA	Solid	8015 NM	
880-23897-2	S-31 3'	Total/NA	Solid	8015 NM	
880-23897-4	S-34 1'	Total/NA	Solid	8015 NM	
880-23897-5	S-34 3'	Total/NA	Solid	8015 NM	
880-23897-6	S-35 1'	Total/NA	Solid	8015 NM	
880-23897-7	S-35 3'	Total/NA	Solid	8015 NM	
880-23897-8	S-36 1'	Total/NA	Solid	8015 NM	
880-23897-9	S-36 3'	Total/NA	Solid	8015 NM	
880-23897-10	S-36 5'	Total/NA	Solid	8015 NM	
880-23897-11	S-36 7'	Total/NA	Solid	8015 NM	
880-23897-12	S-38 1'	Total/NA	Solid	8015 NM	
880-23897-13	S-38 3'	Total/NA	Solid	8015 NM	
880-23897-14	S-38 5'	Total/NA	Solid	8015 NM	
880-23897-15	S-38 10'	Total/NA	Solid	8015 NM	
880-23897-16	S-39 1'	Total/NA	Solid	8015 NM	
880-23897-17	S-39 3'	Total/NA	Solid	8015 NM	
880-23897-18	S-40 1'	Total/NA	Solid	8015 NM	
880-23897-19	S-40 3'	Total/NA	Solid	8015 NM	
880-23897-20	S-40 5'	Total/NA	Solid	8015 NM	
880-23897-21	S-40 7'	Total/NA	Solid	8015 NM	
880-23897-22	S-41 1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 45173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-23	S-41 3'	Total/NA	Solid	8015 NM	
880-23897-24	S-42 1'	Total/NA	Solid	8015 NM	
880-23897-25	S-42 3'	Total/NA	Solid	8015 NM	
880-23897-26	S-42 5'	Total/NA	Solid	8015 NM	
880-23897-27	S-43 1'	Total/NA	Solid	8015 NM	
880-23897-28	S-43 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Soluble	Solid	DI Leach	
880-23897-2	S-31 3'	Soluble	Solid	DI Leach	
880-23897-4	S-34 1'	Soluble	Solid	DI Leach	
880-23897-5	S-34 3'	Soluble	Solid	DI Leach	
880-23897-6	S-35 1'	Soluble	Solid	DI Leach	
880-23897-7	S-35 3'	Soluble	Solid	DI Leach	
880-23897-8	S-36 1'	Soluble	Solid	DI Leach	
880-23897-9	S-36 3'	Soluble	Solid	DI Leach	
880-23897-10	S-36 5'	Soluble	Solid	DI Leach	
880-23897-11	S-36 7'	Soluble	Solid	DI Leach	
880-23897-12	S-38 1'	Soluble	Solid	DI Leach	
880-23897-13	S-38 3'	Soluble	Solid	DI Leach	
880-23897-14	S-38 5'	Soluble	Solid	DI Leach	
880-23897-15	S-38 10'	Soluble	Solid	DI Leach	
880-23897-16	S-39 1'	Soluble	Solid	DI Leach	
880-23897-17	S-39 3'	Soluble	Solid	DI Leach	
880-23897-18	S-40 1'	Soluble	Solid	DI Leach	
880-23897-19	S-40 3'	Soluble	Solid	DI Leach	
880-23897-20	S-40 5'	Soluble	Solid	DI Leach	
880-23897-21	S-40 7'	Soluble	Solid	DI Leach	
MB 880-44704/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44704/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44704/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23897-1 MS	S-31 1'	Soluble	Solid	DI Leach	
880-23897-1 MSD	S-31 1'	Soluble	Solid	DI Leach	
880-23897-12 MS	S-38 1'	Soluble	Solid	DI Leach	
880-23897-12 MSD	S-38 1'	Soluble	Solid	DI Leach	

Leach Batch: 44707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-22	S-41 1'	Soluble	Solid	DI Leach	
880-23897-23	S-41 3'	Soluble	Solid	DI Leach	
880-23897-24	S-42 1'	Soluble	Solid	DI Leach	
880-23897-25	S-42 3'	Soluble	Solid	DI Leach	
880-23897-26	S-42 5'	Soluble	Solid	DI Leach	
880-23897-27	S-43 1'	Soluble	Solid	DI Leach	
880-23897-28	S-43 3'	Soluble	Solid	DI Leach	
MB 880-44707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 44707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-22 MS	S-41 1'	Soluble	Solid	DI Leach	
880-23897-22 MSD	S-41 1'	Soluble	Solid	DI Leach	

Analysis Batch: 44799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-1	S-31 1'	Soluble	Solid	300.0	44704
880-23897-2	S-31 3'	Soluble	Solid	300.0	44704
880-23897-4	S-34 1'	Soluble	Solid	300.0	44704
880-23897-5	S-34 3'	Soluble	Solid	300.0	44704
880-23897-6	S-35 1'	Soluble	Solid	300.0	44704
880-23897-7	S-35 3'	Soluble	Solid	300.0	44704
880-23897-8	S-36 1'	Soluble	Solid	300.0	44704
880-23897-9	S-36 3'	Soluble	Solid	300.0	44704
880-23897-10	S-36 5'	Soluble	Solid	300.0	44704
880-23897-11	S-36 7'	Soluble	Solid	300.0	44704
880-23897-12	S-38 1'	Soluble	Solid	300.0	44704
880-23897-13	S-38 3'	Soluble	Solid	300.0	44704
880-23897-14	S-38 5'	Soluble	Solid	300.0	44704
880-23897-15	S-38 10'	Soluble	Solid	300.0	44704
880-23897-16	S-39 1'	Soluble	Solid	300.0	44704
880-23897-17	S-39 3'	Soluble	Solid	300.0	44704
880-23897-18	S-40 1'	Soluble	Solid	300.0	44704
880-23897-19	S-40 3'	Soluble	Solid	300.0	44704
880-23897-20	S-40 5'	Soluble	Solid	300.0	44704
880-23897-21	S-40 7'	Soluble	Solid	300.0	44704
MB 880-44704/1-A	Method Blank	Soluble	Solid	300.0	44704
LCS 880-44704/2-A	Lab Control Sample	Soluble	Solid	300.0	44704
LCSD 880-44704/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44704
880-23897-1 MS	S-31 1'	Soluble	Solid	300.0	44704
880-23897-1 MSD	S-31 1'	Soluble	Solid	300.0	44704
880-23897-12 MS	S-38 1'	Soluble	Solid	300.0	44704
880-23897-12 MSD	S-38 1'	Soluble	Solid	300.0	44704

Analysis Batch: 44800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23897-22	S-41 1'	Soluble	Solid	300.0	44707
880-23897-23	S-41 3'	Soluble	Solid	300.0	44707
880-23897-24	S-42 1'	Soluble	Solid	300.0	44707
880-23897-25	S-42 3'	Soluble	Solid	300.0	44707
880-23897-26	S-42 5'	Soluble	Solid	300.0	44707
880-23897-27	S-43 1'	Soluble	Solid	300.0	44707
880-23897-28	S-43 3'	Soluble	Solid	300.0	44707
MB 880-44707/1-A	Method Blank	Soluble	Solid	300.0	44707
LCS 880-44707/2-A	Lab Control Sample	Soluble	Solid	300.0	44707
LCSD 880-44707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44707
880-23897-22 MS	S-41 1'	Soluble	Solid	300.0	44707
880-23897-22 MSD	S-41 1'	Soluble	Solid	300.0	44707

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-31 1'
Date Collected: 01/17/23 15:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-1
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 21:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 19:18	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 06:42	CH	EET MID

Client Sample ID: S-31 3'
Date Collected: 01/17/23 15:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-2
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 19:39	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 06:56	CH	EET MID

Client Sample ID: S-34 1'
Date Collected: 01/17/23 10:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-4
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 22:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45087	01/30/23 16:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45170	02/01/23 19:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		5			44799	01/26/23 07:01	CH	EET MID

Client Sample ID: S-34 3'
Date Collected: 01/17/23 10:03
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-5
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-34 3'
Date Collected: 01/17/23 10:03
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-5
Matrix: Solid

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			45173	02/01/23 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45125	01/31/23 13:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45101	01/31/23 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:06	CH	EET MID

Client Sample ID: S-35 1'
Date Collected: 01/16/23 13:20
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-6
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 11:05	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		5			44799	01/26/23 07:11	CH	EET MID

Client Sample ID: S-35 3'
Date Collected: 01/16/23 13:21
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-7
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 12:12	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:25	CH	EET MID

Client Sample ID: S-36 1'
Date Collected: 01/17/23 09:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-8
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/01/23 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45125	01/31/23 13:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45101	01/31/23 22:31	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-36 1'
Date Collected: 01/17/23 09:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:30	CH	EET MID

Client Sample ID: S-36 3'
Date Collected: 01/17/23 09:32
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/01/23 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45125	01/31/23 13:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45101	01/31/23 22:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:35	CH	EET MID

Client Sample ID: S-36 5'
Date Collected: 01/17/23 09:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-10
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/01/23 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45125	01/31/23 13:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45101	01/31/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:40	CH	EET MID

Client Sample ID: S-36 7'
Date Collected: 01/17/23 09:46
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/01/23 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45125	01/31/23 13:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45101	01/31/23 23:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:45	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-38 1'
Date Collected: 01/16/23 11:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-12
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 03:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 12:34	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 07:50	CH	EET MID

Client Sample ID: S-38 3'
Date Collected: 01/16/23 11:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-13
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 12:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:04	CH	EET MID

Client Sample ID: S-38 5'
Date Collected: 01/16/23 11:40
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 13:18	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:09	CH	EET MID

Client Sample ID: S-38 10'
Date Collected: 01/16/23 11:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-15
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 04:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-38 10'
Date Collected: 01/16/23 11:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-15
Matrix: Solid

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			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 13:41	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:24	CH	EET MID

Client Sample ID: S-39 1'
Date Collected: 01/16/23 14:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-16
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 14:03	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:28	CH	EET MID

Client Sample ID: S-39 3'
Date Collected: 01/16/23 14:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-17
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 05:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 14:25	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:33	CH	EET MID

Client Sample ID: S-40 1'
Date Collected: 01/16/23 13:34
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-18
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 14:47	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-40 1'
Date Collected: 01/16/23 13:34
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-18
Matrix: Solid

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	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		5			44799	01/26/23 08:38	CH	EET MID

Client Sample ID: S-40 3'
Date Collected: 01/16/23 13:35
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-19
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 06:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 15:09	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:43	CH	EET MID

Client Sample ID: S-40 5'
Date Collected: 01/16/23 13:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-20
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 15:53	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:48	CH	EET MID

Client Sample ID: S-40 7'
Date Collected: 01/16/23 13:56
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-21
Matrix: Solid

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	44627	01/24/23 12:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/29/23 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 16:15	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44704	01/25/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			44799	01/26/23 08:53	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-41 1'
Date Collected: 01/16/23 13:01
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-22
Matrix: Solid

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	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 16:38	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		5			44800	01/26/23 09:26	CH	EET MID

Client Sample ID: S-41 3'
Date Collected: 01/16/23 13:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-23
Matrix: Solid

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	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 03:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 16:59	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			44800	01/26/23 09:44	CH	EET MID

Client Sample ID: S-42 1'
Date Collected: 01/16/23 12:30
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		5			44800	01/26/23 09:50	CH	EET MID

Client Sample ID: S-42 3'
Date Collected: 01/16/23 12:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-25
Matrix: Solid

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	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-42 3'
Date Collected: 01/16/23 12:31
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-25
Matrix: Solid

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			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 17:40	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		5			44800	01/26/23 15:45	CH	EET MID

Client Sample ID: S-42 5'
Date Collected: 01/16/23 12:45
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-26
Matrix: Solid

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	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 18:02	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			44800	01/26/23 10:03	CH	EET MID

Client Sample ID: S-43 1'
Date Collected: 01/16/23 12:01
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	44733	01/25/23 14:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44898	01/28/23 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 18:23	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		5			44800	01/26/23 10:21	CH	EET MID

Client Sample ID: S-43 3'
Date Collected: 01/16/23 12:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-28
Matrix: Solid

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	44925	01/27/23 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44988	01/30/23 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45033	01/30/23 10:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45173	02/02/23 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45085	01/30/23 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45168	02/01/23 18:45	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Client Sample ID: S-43 3'

Date Collected: 01/16/23 12:02
Date Received: 01/19/23 08:47

Lab Sample ID: 880-23897-28

Matrix: Solid

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 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			44800	01/26/23 10:27	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-23897-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23897-1	S-31 1'	Solid	01/17/23 15:45	01/19/23 08:47
880-23897-2	S-31 3'	Solid	01/17/23 15:46	01/19/23 08:47
880-23897-4	S-34 1'	Solid	01/17/23 10:02	01/19/23 08:47
880-23897-5	S-34 3'	Solid	01/17/23 10:03	01/19/23 08:47
880-23897-6	S-35 1'	Solid	01/16/23 13:20	01/19/23 08:47
880-23897-7	S-35 3'	Solid	01/16/23 13:21	01/19/23 08:47
880-23897-8	S-36 1'	Solid	01/17/23 09:31	01/19/23 08:47
880-23897-9	S-36 3'	Solid	01/17/23 09:32	01/19/23 08:47
880-23897-10	S-36 5'	Solid	01/17/23 09:45	01/19/23 08:47
880-23897-11	S-36 7'	Solid	01/17/23 09:46	01/19/23 08:47
880-23897-12	S-38 1'	Solid	01/16/23 11:30	01/19/23 08:47
880-23897-13	S-38 3'	Solid	01/16/23 11:31	01/19/23 08:47
880-23897-14	S-38 5'	Solid	01/16/23 11:40	01/19/23 08:47
880-23897-15	S-38 10'	Solid	01/16/23 11:45	01/19/23 08:47
880-23897-16	S-39 1'	Solid	01/16/23 14:30	01/19/23 08:47
880-23897-17	S-39 3'	Solid	01/16/23 14:31	01/19/23 08:47
880-23897-18	S-40 1'	Solid	01/16/23 13:34	01/19/23 08:47
880-23897-19	S-40 3'	Solid	01/16/23 13:35	01/19/23 08:47
880-23897-20	S-40 5'	Solid	01/16/23 13:45	01/19/23 08:47
880-23897-21	S-40 7'	Solid	01/16/23 13:56	01/19/23 08:47
880-23897-22	S-41 1'	Solid	01/16/23 13:01	01/19/23 08:47
880-23897-23	S-41 3'	Solid	01/16/23 13:02	01/19/23 08:47
880-23897-24	S-42 1'	Solid	01/16/23 12:30	01/19/23 08:47
880-23897-25	S-42 3'	Solid	01/16/23 12:31	01/19/23 08:47
880-23897-26	S-42 5'	Solid	01/16/23 12:45	01/19/23 08:47
880-23897-27	S-43 1'	Solid	01/16/23 12:01	01/19/23 08:47
880-23897-28	S-43 3'	Solid	01/16/23 12:02	01/19/23 08:47

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No. 2926

CHAIN-OF-CUSTODY

2/2/2023

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

PAGE 1 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-01078#02 COLLECTOR: AB & KG

Data Reported to

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☑ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑	OIL - MOD 8015 ☑	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-31, 1'		1/17/23	1545	S	1				X		X			X	X	X																										X			
S-31, 3'		1/17/23	1546																																										202
S-31, 4'		1/17/23	1558																																									
S-34, 1'		1/17/23	1002																																									
S-34, 3'		1/17/23	1003																																									
S-35, 1'		1/16/23	1320																																									
S-35, 3'		1/16/23	1321																																									
S-36, 1'		1/17/23	0931																																									
S-36, 3'		1/17/23	0932																																									
S-36, 5'		1/17/23	0945																																									
S-36, 7'		1/17/23	0946																																									
S-38, 1'		1/16/23	1130																																									
S-38, 3'		1/16/23	1131																																									
S-38, 5'		1/16/23	1140																																									
S-38, 10'		1/16/23	1145																																									
TOTAL																																												

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Brenda Collins	1/19	[illegible] 1/19 8:47
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0502 THERM# JR
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 59 of 61

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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23897

No. 2927

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE _____ PAGE 2 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107-02 COLLECTOR: AB & KG

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☑ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑	OIL - MOD 8015 ☑	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐	D W 200.8 ☐	OTHER LIST ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-39, 1'		1/16/23	1430	S	1				X		X		X	X	X																										X				
S-39, 3'			1431																																										
S-40, 1'			1334																																										
S-40, 3'			1335																																										
S-40, 5'			1345																																										
S-40, 7'			1356																																										
S-41, 1'			1301																																										
S-41, 3'			1302																																										
S-42, 1'			1230																																										
S-42, 3'			1231																																										
S-42, 5'			1245																																										
S-43, 1'			1201																																										
S-43, 3'			1202																																										
S-43, 4'			1215																																										

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME 1/19	RECEIVED BY (Signature)	1/19 0847
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 05 C. THERM# TR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

2/2/2023

Page 60 of 61

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23897-1
SDG Number: 22-0107-02

Login Number: 23897
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	

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

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 188896
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area needs confirmation samples representing no more than 200 ft2. 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 work plan has been reviewed.	6/22/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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?	71 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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: ____Bill Ramsey_____ Title: Environmental Specialist_____

Signature:_____ Date: __12/15/2023_____

email: ___bramsey@taprk.com_____ Telephone: ___720-238-2787_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2232633250
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. 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: ____Bill Ramsey_____ Title: Environmental Specialist_____

Signature:_____ Date: __12/15/2023_____

email: ___bramsey@taprk.com_____ Telephone: ___720-238-2787_____

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: _____

Incident ID	NAPP2232633250
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: ____Bill Ramsey_____ Title: Environmental Specialist_____

Signature:_____ Date: __12/15/2023_____

email: ___bramsey@taprk.com_____ Telephone: ___720-238-2787_____

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: _____

nAPP2232633250
REMEDIATION AND CLOSURE REPORT
Pliny the Elder #215H
Produced Water Release
Eddy County, New Mexico

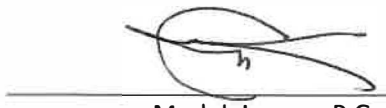
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LAI Project No. 22-0107-02

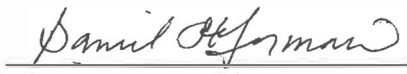
November 14, 2023

Prepared for:
Select Water Solutions, LLC
P.O. Box 1715
Gainesville, TX 76242

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



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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this remediation and closure report on behalf of Select Water Solutions, LLC (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 for a produced water release at the Pliny the Elder #215 (Site) located in Unit D, Section 4, Township 23 South, Range 27 East in Eddy County, New Mexico. The geodetic position is North 32.33858 and West -104.20167. Figure 1 presents a topographic map.

1.1 Background

The release occurred on November 21, 2022, due to a frac tank being overfilled, causing produced water to spill onto the pad and adjacent pasture. Approximately 612.42 barrels (bbls) of produced water were released. None of the produced water was recovered. The release covered an area of about 72,467 square feet (1.66 acres) on privately owned land. The release is considered a major release due to the volume of fluid released. Tap Rock Operating (Tap Rock) submitted the initial C-141 to NMOCD District II and was assigned incident number nAPP2232633250. Appendix A presents the initial C-141. Appendix B presents NMOCD communications.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,140 feet above mean sea level (msl).
- Surface topography slopes gently towards the east.
- No surface water features are located within 1,000 feet of the site.
- USGS karst occurrence potential data designates the area as medium risk.
- Soils are designated as predominantly of Reagan loam, consisting of 82 inches of loam.
- The surface geology is Holocene to lower Pleistocene Piedmont alluvial deposits.
- Groundwater was reported at 71 feet below ground surface (bgs), based on a groundwater well drilled on June 12, 2003, and located 0.36 miles northwest of the Site (Pod C-02970).

Appendix C presents the karst potential map.

1.3 Remediation Levels

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

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

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

2.0 DELINEATION

The release was delineated between December 8, 2022, and January 12, 2023. A scope-of-work detailing the proposed remedial actions was submitted to the NMOCD on February 22, 2023, and approved on June 22, 2023. The document proposed the following remedial actions:

- Excavate soil from an area measuring approximately 16,228 square feet encompassing sample locations S-6, S-8, S-10, S-12, S-13, S-14, and S-19 to a depth of approximately one (1) foot bgs.
- Excavate soil from an area measuring approximately 39,337 square feet encompassing sample locations S-5, S-9, S-15, S-24 through S-37, S-39, S-40, S-41, and S-43 to a depth of approximately two (2) feet bgs.
- Excavate soil from an area measuring approximately 4,171 square feet encompassing sample locations S-4 and S-11 to a depth of approximately three (3) feet bgs.
- Excavate soil from an area measuring approximately 4,028 square feet encompassing sample locations S-20 and S-42.
- During remediation activities, sample locations S-20 and S-42 will be fully delineated with a trackhoe to a depth of approximately fifteen (15) and ten (10) feet bgs, respectfully.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH, and chloride.
- Backfill the excavation on the pad with clean caliche and to one (1) foot bgs within the pasture. The remaining one (1) foot in the pasture will be backfilled with topsoil assuming achievement of NMOCD remediation levels.
- The excavation areas in the pasture will be seeded with BLM Mix #2.
- Prepare a report with photographs detailing the delineation and remediation at the Site for submittal to the NMOCD District II.

On August 21, 2023, LAI personnel collected two (2) additional delineation soil samples (S-20 and S-42) as a condition of NMOCD approval for the remediation plan. A sample was collected at 15 feet bgs at location S-20 and two (2) samples were collected from location S-42 at 10 and 15 feet bgs. The samples were analyzed by Eurofins-Xenco (Xenco) in Midland, Texas for BTEX, TPH, and chloride. Xenco reported that sample from S-20 (15 feet bgs) and the lowermost sample from S-42 (15 feet bgs) were below the NMOCD delineation thresholds. Table 1 presents the delineation soil sample analytical summary. Figure 2 presents an aerial map with delineation sample locations. Figure 3 presents the proposed excavation area map.

3.0 REMEDIATION

Between March 10, 2023, and October 2, 2023, Apeck Construction, LLC (Apeck), under the guidance of LAI, excavated about 10,860 cubic yards of impacted soil from the release area using mechanical and hydro excavation methods. Mechanically excavated material was temporally stored on a polyethylene liner near the excavation and hydro excavated material was temporally stored in an on-site lined containment. Impacted soil was disposed of at the R360 Halfway facility, located at mile marker 64 on U.S. Highway 62/180, east of Carlsbad, New Mexico.

Between March 22 and 24, 2023, LAI personnel collected 87 initial composite confirmation soil samples from the bottom of the excavation. Permian Basin Environmental Lab (PBEL) in Midland, Texas, analyzed

the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28), and oil range organics (>C28-C35) by EPA SW-846 Method 8015M, and chloride by EPA Method 300. PBEL reported benzene, BTEX, and TPH below NMOCD closure criteria in Table 1 of 19.15.29 NMAC for all samples. Chloride was reported above closure criteria in the following nine (9) samples: C-17 (992 mg/Kg), C-51 (1,070 mg/Kg), C-54 (1,050 mg/Kg), C-55 (821 mg/Kg), C-56 (1,560 mg/Kg), C-66 (619 mg/Kg), C-70 (724 mg/Kg), C-74 (656 mg/Kg), and C-85 (685 mg/Kg).

Between March 28 and 30, 2023, LAI personnel collected 124 initial composite confirmation soil samples, including 110 bottom samples (C-88 through C-197) and 14 sidewall samples (C-198 through C-211). PBEL analyzed the samples and reported benzene and BTEX below closure criteria for all samples. The following 99 samples were above closure criteria for chloride and/or TPH:

Sample ID	TPH (mg/Kg)	Chloride (mg/Kg)	Sample ID	TPH (mg/Kg)	Chloride (mg/Kg)	Sample ID	TPH (mg/Kg)	Chloride (mg/Kg)
C-89	<25.3	753	C-139	101	545	C-173	408	799
C-90	<25.8	1,050	C-140	89.7	918	C-174	296	276
C-91	<26.0	988	C-142	<27.5	783	C-175	153	682
C-92	35.7	1,130	C-143	<26.0	837	C-176	2,940	1,120
C-93	<25.5	3,520	C-144	<26.0	746	C-177	366	369
C-94	<25.8	1,380	C-145	<26.6	662	C-178	1,640	386
C-95	<26.0	4,110	C-146	278	2,060	C-179	5,250	500
C-96	<25.0	4,020	C-147	53.1	1,490	C-180	533	913
C-97	<26.3	5,580	C-148	205	811	C-181	378	1,230
C-98	62.6	2,270	C-149	289	613	C-182	408	1,350
C-99	<26.6	4310	C-150	<26.3	1,120	C-183	1,320	1,930
C-100	194	1,080	C-151	<26.6	827	C-184	732	1,510
C-101	126	1,170	C-152	244	1,220	C-185	263	1,030
C-102	<25.5	782	C-153	388	1,590	C-186	474	798
C-103	72.3	931	C-154	115	1,620	C-188	328	407
C-104	118	1,130	C-155	46.6	983	C-189	1,220	435
C-105	<26.3	725	C-156	<25.8	600	C-190	1,050	540
C-107	<26.3	1,310	C-157	55.3	1,170	C-191	1,770	407
C-109	<25.8	725	C-158	91.3	1,940	C-192	703	570
C-110	127	1,100	C-159	225	692	C-193	323	492
C-112	104	992	C-160	89.9	640	C-194	189	1,020
C-113	<26.3	833	C-161	54.8	664	C-195	66.6	796
C-114	107	801	C-162	76.7	878	C-197	355	833
C-121	<26.3	893	C-163	140	1,090	C-199	59.1	2,450
C-122	<26.3	627	C-164	1,930	604	C-200	<25.5	2330
C-123	60.6	939	C-165	894	731	C-203	<26.3	774
C-127	<26.3	878	C-166	231	812	C-205	122	1,230
C-132	<26.3	807	C-167	273	822	C-206	268	1,730
C-133	<26.3	715	C-168	177	836	C-207	697	2,330
C-134	97.2	1,710	C-169	212	1,290	C-208	3,760	4,590
C-135	<26.3	883	C-170	377	1,990	C-209	72	704
C-136	123	1,810	C-171	397	1,360	C-210	<25.3	657
C-138	109	983	C-172	480	829	C-211	108	1,580

Between April 25 and 28, 2023, LAI personnel collected 67 confirmation soil samples, including 34 initial samples (C-212 through C-245) and 33 samples where additional excavation was performed due to TPH and/or chloride being above NMOCD closure criteria. The resampled areas included, C-17, C-51, C-54, C-55, C-56, C-66, C-70, C-74, C-85, C-89, C-90, C-91, C-92, C-93, C-94, C-95, C-96, C-97, C-98, C-99, C-100, C-101, C-102, C-103, C-104, C-105, C-107, C-109, C-199a, C-199b, C-200, C-203, and C-205. PBEL analyzed the samples for BTEX, TPH, chloride, and reported that all samples were below closure criteria for benzene and BTEX. The following 16 samples were reported above closure criteria for chloride and/or TPH:

Sample ID	Depth (feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-103	3	<26.3	601
C-212	2	1,510	140
C-213	2	182	1,840
C-214	2	107	1,280
C-215	2	110	1,000
C-216	2	2,280	3,810
C-217	2	141	2,880
C-218	2	57.6	652
C-219	2	145	1,030
C-220	2	<25.8	1,830
C-222	2	97.2	766
C-223	2	108	2,780
C-224	2	<25.3	1,150
C-225	2	100	514
C-226	2	<26.0	1,150
C-227	0-2	181	1,640

Between May 1 and 3, 2023, LAI personnel collected 60 confirmation soil samples, including two (2) initial samples (C-246 and C-247) and 58 samples from areas where additional excavation was performed due to chloride and/or TPH being above closure criteria. The resampled areas included C-145 through C-176 and C-178 through C-183. PBEL analyzed the samples for BTEX, TPH, and chloride, and reported that all samples were below closure criteria for benzene, BTEX, and chloride. The following eight (8) samples were reported above closure criteria for TPH: C-159 (131 mg/Kg), C-166 (101 mg/Kg), C-167 (328 mg/Kg), C-169 (105 mg/Kg), C-172 (145 mg/Kg), C-173 (212 mg/Kg), C-175 (157 mg/Kg), and C-179 (205 mg/Kg).

Between May 8 and 10, 2023, LAI personnel collected 46 confirmation soil samples, including 22 initial samples (C-249 through C-270) and 24 samples from areas where additional excavation was performed due to chloride and/or TPH being above closure criteria. The resampled areas included C-177, C-184, C-185, C-186, C-188, C-189, C-190, C-191, C-192, C-193, C-194, C-195, C-197, C-206a, C-206b, C-207a, C-207b, C-208a, C-208b, C-209a, C-209b, C-210a, C-210b, and C-211. PBEL analyzed the samples for BTEX, TPH, and chloride, and reported that all samples were below closure criteria for benzene, BTEX, and TPH. The following five (5) samples were reported above closure criteria for chloride: C-263 (1,100 mg/Kg), C-264 (613 mg/Kg), C-265 (1,110 mg/Kg), C-267 (2,360 mg/Kg), and C-269a (787 mg/Kg).

On June 20 and 21, 2023, LAI personnel collected 16 confirmation soil samples from areas where additional excavation was performed due to chloride and/or TPH being above closure criteria. The resampled areas included C-159, C-166, C-167, C-169, C-172, C-173, C-175, C-179, C-248, C-263, C-264, C-265, C-267, C-269a, C-269b, and C-269c. The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco (Xenco), located in Midland, Texas. Xenco analyzed the samples for BTEX, TPH, and chloride and reported that the samples were below closure criteria for all parameters.

On June 26, 2023, LAI personnel collected 16 confirmation soil samples from areas where additional excavation was performed due to chloride and/or TPH being reported above closure criteria. The resampled areas included C-103, C-212, C-213, C-214, C-215, C-216, C-217, C-218, C-219, C-220, C-222, C-223, C-224, C-225, C-226, and C-227. Xenco analyzed the samples and reported that all samples were below closure criteria for benzene and BTEX. Sample C-227 was reported above closure criteria for TPH (424 mg/Kg) and chloride (7,120 mg/kg).

On July 12, 2023, LAI personnel collected two (2) confirmation soil samples from areas where additional excavation was performed due to chloride and/or TPH being reported above closure criteria. The resampled areas included C-227a and C-227b. Xenco analyzed the samples and reported that both samples were below closure criteria for all parameters.

On July 20, 2023, LAI personnel collected five (5) initial confirmation soil samples (C-296, C-297, C-306, C-307, and C-308). Xenco analyzed the samples for BTEX, TPH, and chloride and reported that all samples were below closure criteria for benzene, BTEX, and TPH. Chloride was reported above closure criteria in the following samples, C-296 (6,620 mg/Kg), C-297 (1,050 mg/Kg), C-306 (2,140 mg/Kg), C-307 (1,500 mg/Kg), and C-308 (1,360 mg/Kg).

On July 27, 2023, LAI personnel collected five (5) initial confirmation soil samples (C-271, C-274, C-275, C-278, and C-279). Xenco analyzed the samples for BTEX, TPH, and chloride and reported that all samples were below closure criteria for benzene and BTEX. Chloride and/or TPH was reported above closure criteria in the following samples:

Sample ID	Depth (feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-271	3	292	3,310
C-274	3	107	5,290
C-275	3	<49.6	1,370
C-278	3	365	5,130
C-279	3	67.4	3,330

On August 9, 2023, LAI personnel collected 28 initial confirmation soil samples, including samples C-272, C-273, C-276, C-277, C-280, C-295, C-282, C-283, C-284, C-285, C-286, C-287, C-289, C-290, C-291, C-292, C-293, C-294, C-295, C-298, C-299, C-300, C-301, C-302, C-303, C-304, C-305, and C-309. Xenco analyzed the samples and reported that all samples were below closure criteria for benzene and BTEX. Chloride and/or TPH was reported above closure criteria in the following three (3) samples:

Sample ID	Depth (feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-283	2	<50.4	624
C-289	2	121	621
C-291	2	722	1,700

On August 21, 2023, LAI personnel collected eight (8) initial confirmation soil samples, including samples C-288, C-310, C-311, C-312, C-313, C-314, C-315, and C-316. Xenco analyzed the samples and reported that all samples were below closure criteria for benzene and BTEX. Chloride and/or TPH was report above closure criteria in the following six (6) samples:

Sample ID	Depth (feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-310	0-2	2,140	26,500
C-311	0-4.1	1,950	11,700
C-312	0-4.1	874	10,100
C-313	0-2	774	8,900
C-314	0-2	1,640	25,400
C-316	0-3	<49.9	8,650

On October 2, 2023, LAI personnel collected thirteen (13) confirmation soil samples from areas where additional excavation was performed due to chloride and/or TPH being reported above NMOCD closure criteria. The resampled areas included C-271, C-274, C-275, C-278, C-279, C-283, C-289, C-291, C-296, C-297, C-306, C-307, and C-308. Xenco analyzed the samples for BTEX, TPH, and chloride and reported that all samples were below closure criteria for all parameters.

Laboratory analysis demonstrates that that benzene, BTEX, TPH, and chloride are below NMOCD closure standards listed in Table 1 of 19.15.29 NMAC in all confirmation samples, apart from the sample locations where a deferral is requested. Figure 4 presents the excavation areas and sample location map. Table 2 presents the confirmation sample analytical summary. Appendix D presents the laboratory reports.

4.0 RECLAMATION

On June 19, 2022, LAI personnel collected 20 composite soil samples (BF-1 through BF-20) of backfill material from a borrow pit located in Unit A, Section 8, Township 23 South, Range 27 East, in Eddy County, New Mexico. Xenco analyzed the samples for BTEX, TPH and chloride and reported that all parameters were below NMOCD requirements outlined in NMAC 19.25.29.13D(1). BTEX and TPH were reported below analytical method reporting limits. Chloride ranged between 32.3 mg/Kg (BF-5) and 300 mg/Kg (BF-12). Table 3 presents the backfill soil sample analytical data summary. Appendix D presents the laboratory reports. Appendix E presents the photographic documentation.

Between July 9, 2023, and November 6, 2023, Apeck backfilled the excavation with topsoil and caliche from the borrow pit. Caliche was used to backfill the excavation areas located on the pad and topsoil was used to backfill excavation areas located in the pasture. Additional topsoil was used to recontour

offsite areas to resemble previous surface conditions. On November 16, 2023, LAI personnel seeded the pasture area with BLM Mix #2 and blue gramma grass, per the landowners request. Backfill notification was provided to the NMOCD on July 6, 2023, and October 19, 2023. Appendix B presents NMOCD communications. Appendix E presents photographic documentation.

5.0 DEFFERRAL REQUEST

Select requests a deferral for the areas at sample locations C-310, C-311, C-312, C-313, C-314, and C-316. The sample locations are in close proximity to wellheads, flowlines, and gas risers and would require major facility deconstruction to remediate.

Tables

Table 1

Delineation Soil Sample Analytical Data Summary

Pliny the Elder #215H

Eddy County, New Mexico

32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-1	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	24.6
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	728	<49.9	<49.9	728	27.8
S-2	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	155
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	187
S-3	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	277
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	299
S-4	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**1,650**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**4,210**
	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**2,100**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	483
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	591
	6	01/12/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	125
S-5	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	261
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**833**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,180**
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	39.9
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	29.3
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.3
S-6	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**1,070**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	270
S-7	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	36.5
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	34.3

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-8	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**947**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	467
S-9	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	361
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,190**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**368**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**70.1**
S-10	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**982**
	0.5-1	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**620**
	1	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	484
	3	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	93.0
	5	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	14.9
	7	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	84.8
S-11	0-0.5	12/01/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**823**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**900**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**2,310**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	266
	5	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	12.2
	6	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	12.3
S-12	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**926**
	0.5-1	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	52.5
S-13	0-0.5	12/01/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**978**

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	190
S-14	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**982**
	0.5-1	12/01/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	80.1
North	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	14.8
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	20.5
South	0-0.5	12/01/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.1
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	15.3
East	0-0.5	12/01/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	23.2
	0.5-1	12/01/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	17.7
S-15	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,020**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,060**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**667**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	155
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	39.4
	10	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	13.2
S-16	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	113
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<5.05
S-17	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	143
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	323
S-18	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	42.7

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5-1	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	47.4
S-19	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**1,040**
	0.5-1	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	434
S-20	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**807**
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,130**
	1	01/12/2023	In-Situ	<0.00202	<0.00403	<49.9	210	<49.9	**210**	**2,010**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,140**
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,870**
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**757**
	13	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**721**
	15	08/21/2023	In-Situ	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	**148**
S-21	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.99
	0.5-1	12/08/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	482
S-22	0-0.5	12/08/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	347
S-23	0-0.5	12/08/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	412
	0.5-1	12/08/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	13.8
S-24	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00399	<50.0	135	<50.0	**135**	246
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	317	<49.9	**317**	**1,560**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	370
	6	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	23.0
S-25	0-0.5	12/08/2022	In-Situ	<0.00202	<0.00404	<49.9	393	<49.9	**393**	**680**

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	157	<49.9	**157**	**1,370**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	149
	5	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	44.3
	10	01/12/2023	In-Situ	<0.00198	<0.00398	<49.9	<49.9	<49.9	<49.9	19.2
S-26	0-0.5	12/08/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**652**
	1	01/12/2023	In-Situ	<0.00200	<0.00401	<50.0	60.2	<50.0	60.2	**2,040**
	3	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	97.6
	5	01/12/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	10.5
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.62
S-27	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	253	135	**388**	324
	3	01/13/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	146
	5	01/13/2023	In-Situ	<0.00199	<0.00399	<49.8	<49.8	<49.8	<49.8	20.2
S-28	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	358	<49.9	**358**	**952**
	3	01/13/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	153
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	129
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	104
S-29	1	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	101	<50.0	**101**	**700**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	193
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	399
	7	01/13/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	270
S-30	1	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	156	<50.0	**156**	**1,320**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	127
	5	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	101

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	139
S-31	1	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	57.9	<49.9	57.9	**1,160**
	3	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	91.3
	5	01/13/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	43.2
	6.5	01/13/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	39.1
S-32	1	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	83.9	<49.9	83.9	**1,370**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	269
	5	01/12/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	64.6
	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	106
S-33	1	01/12/2023	In-Situ	<0.00201	<0.00402	<49.9	54	<49.9	54	**1,270**
	3	01/12/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	523
	5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	52.6
	10	01/12/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	35.8
S-34	1	01/17/2023	In-Situ	<0.00199	<0.00398	<50.0	181	<50.0	**181**	**1,370**
	3	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37.4
S-35	1	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	137	<50.0	**137**	**2,060**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	119
S-36	1	01/17/2023	In-Situ	<0.00200	<0.00401	<50.0	85.9	<50.0	85.9	402
	3	01/17/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	404
	5	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	391
S-37	1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**961**

Table 1
Delineation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	3	01/13/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	159
	5	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	249
	7	01/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	154
S-38	1	01/16/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	595
	3	01/16/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	113
	5	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	94.9
	10	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	64.8	<49.9	64.8	94.2
S-39	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	256	<49.9	**256**	**628**
	3	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	55.2
S-40	1	01/16/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,650**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	291
	5	01/16/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	214
	7	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	66.3
S-41	1	01/16/2023	In-Situ	<0.00200	<0.00399	<50.0	1,290	<50.0	**1,290**	**2,410**
	3	01/16/2023	In-Situ	<0.00201	0.0459	<50.0	<50.0	<50.0	<50.0	139
S-42	1	01/16/2023	In-Situ	<0.00202	<0.00404	<49.9	78.7	<49.9	78.7	**2,840**
	3	01/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,460**
	5	01/16/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**682**
	10	08/21/2023	In-Situ	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	**2,380**
	15	08/21/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**230**
S-43	1	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	168	<49.9	**168**	**1,110**
	3	01/16/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	350

Table 1

Delineation Soil Sample Analytical Data Summary

Pliny the Elder #215H

Eddy County, New Mexico

32°20'18.92"N, 104°12'06.02"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
West	0 - 1	01/13/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	154

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-1	Sidewall	0-1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	220
C-2	Sidewall	0-3	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	36.7
C-3	Bottom	1	03/22/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	32.6
C-4	Bottom	1	03/22/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	41.7
C-5	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	36.6
C-6	Bottom	1	03/22/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	125
C-7	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	33.5
C-8	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	52.4
C-9	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	49.8
C-10	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	284
C-11	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	237
C-12	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	171
C-13	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	265
C-14	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	294
C-15	Bottom	1	03/22/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	375
C-16	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	360
C-17	Bottom	1	03/22/2023	Excavated	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**992**
C-17	Bottom	2	04/25/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	151
C-18	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	396
C-19	Bottom	1	03/22/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	405
C-20	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	267
C-21	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	358
C-22	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	255
C-23	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	203
C-24	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	224
C-25	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	241
C-26	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	193

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-27	Bottom	1	03/22/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	47.4
C-28	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	51.0
C-29	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	168
C-30	Bottom	1	03/22/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	346
C-31	Bottom	1	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	313
C-32	Bottom	1	03/22/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	255
C-33	Bottom	1	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	167
C-34	Bottom	1	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	181
C-35	Bottom	3	03/22/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	263
C-36	Bottom	3	03/22/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	27.2
C-37	Bottom	3	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	177
C-38	Bottom	3	03/22/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	26.7
C-39	Bottom	3	03/22/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	116
C-40	Bottom	3	03/22/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	19.9
C-41	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	35.1
C-42	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	149
C-43	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	98.0
C-44	Bottom	1	03/23/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	53.9
C-45	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	291
C-46	Bottom	1	03/23/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	543
C-47	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	26.6
C-48	Bottom	1	03/23/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	178
C-49	Bottom	1	03/23/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	472
C-50	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	554
C-51	Bottom	1	03/23/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**1,070**
C-51	Bottom	3	04/25/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	284
C-52	Bottom	1	03/23/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	286

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-53	Bottom	1	03/23/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	434
C-54	Bottom	1	03/23/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**1,050**
C-54	Bottom	2	04/25/2023	In-Situ	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	26.1
C-55	Bottom	1	03/23/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**821**
C-55	Bottom	2	04/25/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	164
C-56	Bottom	1	03/23/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,560**
C-56	Bottom	2	04/25/2023	In-Situ	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	256
C-57	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	437
C-58	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	529
C-59	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	401
C-60	Bottom	1	03/23/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	557
C-61	Bottom	1	03/23/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	215
C-62	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	112
C-63	Bottom	1	03/23/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	529
C-64	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	45.4
C-65	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	272
C-66	Bottom	1	03/23/2023	Excavated	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	**619**
C-66	Bottom	2	04/25/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	34.8
C-67	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	290
C-68	Bottom	1	03/23/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	27.4
C-69	Bottom	1	03/23/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	165
C-70	Bottom	1	03/23/2023	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**724**
C-70	Bottom	3	04/25/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	<1.04
C-71	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	323
C-72	Bottom	1	03/23/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	69.0
C-73	Bottom	1	03/23/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	232
C-74	Bottom	1	03/23/2023	Excavated	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**656**

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-74	Bottom	3	04/25/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	122
C-75	Bottom	3	03/23/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	97.9
C-76	Bottom	3	03/23/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	81.2
C-77	Bottom	3	03/23/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	81.2
C-78	Bottom	2	03/24/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	158
C-79	Bottom	2	03/24/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	149
C-80	Bottom	2	03/24/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	186
C-81	Bottom	2	03/24/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	116
C-82	Bottom	2	03/24/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	213
C-83	Bottom	2	03/24/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	104
C-84	Bottom	2	03/24/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	489
C-85	Bottom	2	03/24/2023	Excavated	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**685**
C-85	Bottom	2	04/25/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	29.5
C-86	Bottom	2	03/24/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	421
C-87	Bottom	2	03/24/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	182
C-88	Bottom	2	03/28/2023	In-Situ	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	196
C-89	Bottom	2	03/28/2023	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**753**
C-89	Bottom	3	04/26/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	26.6
C-90	Bottom	2	03/28/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,050**
C-90	Bottom	3	04/26/2023	In-Situ	<0.00110	0.00220	<27.5	<27.5	<27.5	<27.5	47.7
C-91	Bottom	2	03/28/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**988**
C-91	Bottom	3	04/26/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	21.8
C-92	Bottom	2	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	**35.7**	<25.5	**35.7**	**1,130**
C-92	Bottom	3	04/26/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	10.5
C-93	Bottom	2	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	**3,520**
C-93	Bottom	3	04/26/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	2.5
C-94	Bottom	2	03/28/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,380**

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-94	Bottom	3	04/26/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	82.5
C-95	Bottom	2	03/28/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**4,110**
C-95	Bottom	3	04/26/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	8.0
C-96	Bottom	2	03/28/2023	Excavated	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	**4,020**
C-96	Bottom	3	04/26/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	9.0
C-97	Bottom	2	03/28/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**5,580**
C-97	Bottom	4.1	04/27/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	1,320
C-98	Bottom	2	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	**62.6**	<25.5	**62.6**	**2,270**
C-98	Bottom	4.1	04/27/2023	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	1,190
C-99	Bottom	2	03/28/2023	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**4,310**
C-99	Bottom	4.1	04/27/2023	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	2,770
C-100	Bottom	1	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	**194**	<25.5	**194**	**1,080**
C-100	Bottom	3	04/26/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	33.5
C-101	Bottom	1	03/28/2023	Excavated	<0.00101	<0.00202	<25.3	**126**	<25.3	**126**	**1,170**
C-101	Bottom	3	04/26/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	427
C-102	Bottom	1	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	**782**
C-102	Bottom	3	04/26/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	<1.03
C-103	Bottom	1	03/28/2023	Excavated	<0.00102	<0.00104	<25.5	**72.3**	<25.5	**72.3**	**931**
C-103	Bottom	3	04/26/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**601**
C-103	Bottom	4.1	06/26/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	239
C-104	Bottom	1	03/28/2023	Excavated	<0.00103	<0.00206	<25.8	**118**	<25.8	**118**	**1,130**
C-104	Bottom	3	04/26/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	118
C-105	Bottom	1	03/28/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**725**
C-105	Bottom	4.1	04/27/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	1,530
C-106	Bottom	3	03/28/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	529
C-107	Bottom	3	03/28/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,310**
C-107	Bottom	4.1	04/27/2023	In-Situ	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	50.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-108	Bottom	3	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	489
C-109	Bottom	3	03/29/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**725**
C-109	Bottom	4.1	04/27/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	137
C-110	Bottom	2	03/29/2023	Excavated	<0.00103	<0.00206	<25.8	**95.2**	**32.1**	**127**	**1,100**
C-110	Bottom	3	05/01/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	18.0
C-111	Bottom	2	03/29/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	375
C-112	Bottom	2	03/29/2023	Excavated	<0.00103	<0.00206	<25.8	**77.9**	**26.1**	**104**	**992**
C-112	Bottom	3	05/01/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	40.0
C-113	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	**57.3**	<26.3	<26.3	**833**
C-113	Bottom	3	05/02/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	70.8
C-114	Bottom	2	03/29/2023	Excavated	<0.00103	<0.00206	<25.8	**80.2**	**26.3**	**107**	**801**
C-114	Bottom	3	05/02/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	59.0
C-115	Bottom	2	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	548
C-116	Bottom	2	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	589
C-117	Bottom	2	03/29/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	577
C-118	Bottom	2	03/29/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	288
C-119	Bottom	2	03/29/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	395
C-120	Bottom	2	03/29/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	458
C-121	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**893**
C-121	Bottom	3	05/02/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	53.5
C-122	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**627**
C-122	Bottom	3	05/02/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	167
C-123	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**60.6**	<26.0	**60.6**	**939**
C-123	Bottom	3	05/02/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	130
C-124	Bottom	2	03/29/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	589
C-125	Bottom	2	03/29/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	390
C-126	Bottom	2	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	484

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-127	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**878**
C-127	Bottom	3	05/01/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	65.5
C-128	Bottom	2	03/29/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	128
C-129	Bottom	2	03/29/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	543
C-130	Bottom	2	03/29/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	518
C-131	Bottom	2	03/29/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	530
C-132	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**807**
C-132	Bottom	3	05/02/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	136
C-133	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**715**
C-133	Bottom	3	05/01/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	185
C-133	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	74.3
C-134	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**97.2**	<26.0	**97.2**	**1,710**
C-134	Bottom	3	05/01/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	41.2
C-135	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**883**
C-135	Bottom	3	05/01/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	425
C-136	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**95.4**	**27.6**	**123**	**1,810**
C-136	Bottom	3	05/01/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	58.1
C-137	Bottom	2	03/29/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	494
C-138	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**109**	<26.0	**109**	**983**
C-138	Bottom	3	05/01/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	57.3
C-139	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**101**	<26.0	**101**	545
C-139	Bottom	3	05/01/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	160
C-140	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**89.7**	<26.0	**89.7**	**918**
C-140	Bottom	3	05/01/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	203
C-141	Bottom	2	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	546
C-142	Bottom	2	03/29/2023	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**783**
C-142	Bottom	3	05/02/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	422

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-143	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**837**
C-143	Bottom	3	05/02/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	497
C-144	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**746**
C-144	Bottom	4.1	05/03/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	115
C-145	Bottom	2	03/29/2023	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**662**
C-145	Bottom	4.1	05/03/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	373
C-146	Bottom	2	03/29/2023	Excavated	<0.00106	<0.00213	<26.6	**234**	**44.7**	**278**	**2,060**
C-146	Bottom	3	05/02/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	60.6
C-147	Bottom	2	03/29/2023	Excavated	<0.00108	<0.00215	<26.9	**53.1**	<26.9	**53.1**	**1,490**
C-147	Bottom	3	05/02/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	175
C-148	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	**158**	**46.9**	**205**	**811**
C-148	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	85.1
C-149	Bottom	2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**210**	**78.7**	**289**	**613**
C-149	Bottom	3	05/02/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	26.4
C-150	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,120**
C-150	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	20.0
C-151	Bottom	2	03/29/2023	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**827**
C-151	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	21.0
C-152	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	**160**	**83.9**	**244**	**1,220**
C-152	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	19.9
C-153	Bottom	2	03/29/2023	Excavated	<0.00106	<0.00213	<26.6	**307**	**80.6**	**388**	**1,590**
C-153	Bottom	3	05/02/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	64.6
C-154	Bottom	2	03/29/2023	Excavated	<0.00106	<0.00213	<26.6	**73.3**	**41.8**	**115**	**1,620**
C-154	Bottom	3	05/02/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	43.5
C-155	Bottom	2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	**46.6**	<26.3	**46.6**	**983**
C-155	Bottom	3	05/02/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	78.1
C-156	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**600**

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Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-156	Bottom	3	05/02/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	383
C-157	Bottom	2	03/30/2023	Excavated	<0.00101	<0.00202	<25.3	**55.3**	<25.3	**55.3**	**1,170**
C-157	Bottom	3	05/02/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	201
C-158	Bottom	2	03/30/2023	Excavated	<0.00101	<0.00202	<25.3	**91.3**	<25.3	**91.3**	**1,940**
C-158	Bottom	3	05/03/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	163
C-159	Bottom	2	03/30/2023	Excavated	<0.00101	<0.00202	<25.3	**187**	**38.1**	**225**	**692**
C-159	Bottom	3	05/01/2023	Excavated	<0.00103	<0.00206	<25.8	<25.8	**131**	**131**	234
C-159	Bottom	4.1	06/21/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	61.8
C-160	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**89.9**	<26.0	**89.9**	**640**
C-160	Bottom	3	05/01/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	124
C-161	Bottom	2	03/30/2023	Excavated	<0.00105	<0.00211	<26.3	**54.8**	<26.3	**54.8**	**664**
C-161	Bottom	3	05/01/2023	In-Situ	<0.00103	<0.00206	<25.8	**43.9**	<25.8	**43.9**	496
C-162	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**76.7**	<26.0	**76.7**	**878**
C-162	Bottom	3	05/01/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	50.5
C-163	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**140**	<25.8	**140**	**1,090**
C-163	Bottom	3	05/02/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	167
C-164	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**1,650**	**287**	**1,930**	**604**
C-164	Bottom	3	05/02/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	455
C-165	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**793**	**101**	**894**	**731**
C-165	Bottom	3	05/02/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	64.9
C-166	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**183**	**48.7**	**231**	**812**
C-166	Bottom	3	05/02/2023	Excavated	<0.00102	<0.00204	<25.5	**101**	<25.5	**101**	168
C-166	Bottom	4.1	06/21/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	82.0
C-167	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**232**	**41.9**	**273**	**822**
C-167	Bottom	3	05/02/2023	Excavated	<0.00102	<0.00204	<25.5	**288**	**39.8**	**328**	222
C-167	Bottom	4.1	06/21/2023	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	123
C-168	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**177**	<25.8	**177**	**836**

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-168	Bottom	3	05/02/2023	In-Situ	<0.00102	<0.00204	<25.5	**66.8**	<25.5	**66.8**	241
C-169	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**183**	**28.7**	**212**	**1,290**
C-169	Bottom	3	05/02/2023	Excavated	<0.00102	<0.00104	<25.5	**105**	<25.5	**105**	246
C-169	Bottom	4.1	06/21/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	140
C-170	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**311**	**66.3**	**377**	**1,990**
C-170	Bottom	3	05/03/2023	In-Situ	<0.00102	<0.00204	<25.5	**98.1**	<25.5	**98.1**	335
C-171	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**346**	**50.3**	**397**	**1,360**
C-171	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	375
C-172	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**410**	**69.9**	**480**	**829**
C-172	Bottom	3	05/03/2023	Excavated	<0.00103	<0.00206	<25.8	**145**	<25.8	**145**	453
C-172	Bottom	4.1	06/21/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	156
C-173	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**354**	**54.2**	**408**	**799**
C-173	Bottom	3	05/03/2023	Excavated	<0.00102	<0.00204	<25.5	**212**	<25.5	**212**	238
C-173	Bottom	4.1	06/21/2023	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	97.5
C-174	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**258**	**38.4**	**296**	276
C-174	Bottom	3	05/03/2023	In-Situ	<0.00102	<0.00204	<25.5	**41.7**	<25.5	**41.7**	55.5
C-175	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**153**	<25.8	**153**	**682**
C-175	Bottom	3	05/03/2023	Excavated	<0.00102	<0.00204	<25.5	**157**	<25.5	**157**	190
C-175	Bottom	4.1	06/21/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	407
C-176	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	**63.4**	**2,500**	**379**	**2,940**	**1,120**
C-176	Bottom	3	05/03/2023	In-Situ	<0.00104	<0.00208	<26.0	**65.9**	<26.0	**65.9**	176
C-177	Bottom	2	03/30/2023	Excavated	<0.00105	<0.00211	<26.3	**325**	**40.4**	**366**	369
C-177	Bottom	4.1	05/08/2023	In-Situ	<0.00103	<0.00206	<25.8	**79.0**	<25.8	**79.0**	120
C-178	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	**42.3**	**1,500**	**97.7**	**1,640**	386
C-178	Bottom	3	05/03/2023	In-Situ	<0.00101	<0.00202	<25.3	**45.3**	<25.3	**45.3**	78.1
C-179	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	**117**	**4,720**	**408**	**5,250**	500
C-179	Bottom	3	05/03/2023	Excavated	<0.00101	<0.00202	<25.3	**205**	<25.3	**205**	120

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-179	Bottom	4.1	06/21/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	87.6
C-180	Bottom	2	03/30/2023	Excavated	<0.00112	<0.00225	<28.1	**470**	**63.0**	**533**	**913**
C-180	Bottom	3	05/03/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	36.1
C-181	Bottom	2	03/30/2023	Excavated	<0.00111	<0.00222	<27.8	**317**	**61.1**	**378**	**1,230**
C-181	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	179
C-182	Bottom	2	03/30/2023	Excavated	<0.00115	<0.00230	<28.7	**353**	**55.1**	**408**	**1,350**
C-182	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	127
C-183	Bottom	2	03/30/2023	Excavated	<0.00115	<0.00230	<28.7	**1,040**	**280**	**1,320**	**1,930**
C-183	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	123
C-184	Bottom	2	03/30/2023	Excavated	<0.00102	<0.00204	<25.5	**551**	**181**	**732**	**1,510**
C-184	Bottom	3	05/08/2023	In-Situ	**0.0013**	**0.00231**	<25.3	<25.3	<25.3	<25.3	257
C-185	Bottom	2	03/30/2023	Excavated	<0.00101	<0.00202	<25.3	**211**	**51.8**	**263**	**1,030**
C-185	Bottom	3	05/08/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	35.3
C-186	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**409**	**64.8**	**474**	**798**
C-186	Bottom	3	05/08/2023	In-Situ	<0.00101	**0.00109**	<25.3	<25.3	<25.3	<25.3	43.5
C-187	Bottom	2	03/30/2023	In-Situ	<0.00102	<0.00204	<25.5	**63.8**	<25.5	**63.8**	214
C-188	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**328**	<26.0	**328**	407
C-188	Bottom	3	05/08/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	38.0
C-189	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**1,130**	**97.8**	**1,220**	435
C-189	Bottom	3	05/08/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	51.3
C-190	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	**26.1**	**955**	**93.2**	**1,050**	540
C-190	Bottom	3	05/08/2023	In-Situ	**0.00737**	**0.01198**	<25.5	<25.5	<25.5	<25.5	184
C-191	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	**67.0**	**1,640**	**68.3**	**1,770**	407
C-191	Bottom	3	05/08/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	29.2
C-192	Bottom	2	03/30/2023	Excavated	<0.00103	<0.00206	<25.8	**627**	**76.1**	**703**	570
C-192	Bottom	3	05/08/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	93.8
C-193	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**282**	**40.6**	**323**	492

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-193	Bottom	3	05/08/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	63.0
C-194	Bottom	2	03/30/2023	Excavated	<0.00104	<0.00208	<26.0	**147**	**41.4**	**189**	**1,020**
C-194	Bottom	3	05/08/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	148
C-195	Bottom	2	03/30/2023	Excavated	<0.00106	<0.00213	<26.6	**66.6**	<26.6	**66.6**	**796**
C-195	Bottom	3	05/08/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	14.9
C-196	Bottom	2	03/30/2023	In-Situ	<0.00111	<0.00222	<27.8	**76.4**	<27.8	**76.4**	574
C-197	Bottom	2	03/30/2023	Excavated	<0.00106	<0.00213	<26.6	**262**	**93.1**	**355**	**833**
C-197	Bottom	3	05/08/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	524
C-198	Sidewall	0 - 2	03/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	190
C-199a	Sidewall	0 - 2	03/28/2023	In-Situ	<0.00104	<0.00208	<26.0	**59.1**	<26.0	**59.1**	**2,450**
C-199a	Sidewall	0-4.1	04/28/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	15.3
C-199b	Sidewall	0-3	04/27/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	56.4
C-200	Sidewall	0 - 2	03/28/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**2,330**
C-200	Sidewall	0-3	04/27/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	41.9
C-201	Sidewall	0 - 2	03/28/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	238
C-202	Sidewall	0 - 2	03/28/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	339
C-203	Sidewall	0 - 3	03/28/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**774**
C-203	Sidewall	0-4.1	04/28/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	76.6
C-204	Sidewall	0 - 3	03/29/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	134
C-205	Sidewall	0 - 3	03/29/2023	In-Situ	<0.00102	<0.00204	<25.5	**92.7**	**23.0**	**122**	**1,230**
C-205	Sidewall	0-4.1	04/27/2023	In-Situ	<0.00102	<0.00104	<25.5	<25.5	<25.5	<25.5	64.7
C-206a	Sidewall	0 - 2	03/29/2023	Excavated	<0.00105	<0.00211	<26.3	**218**	**50.5**	**268**	**1,730**
C-206a	Sidewall	0-3	05/09/2023	In-Situ	**0.00107**	**0.00241**	<25.3	<25.3	<25.3	<25.3	353
C-206b	Sidewall	0-3	05/10/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	117
C-207a	Sidewall	0 - 2	03/29/2023	Excavated	<0.00102	**0.00297**	<25.5	**616**	**80.7**	**697**	**2,330**
C-207a	Sidewall	0-3	05/09/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	123
C-207b	Sidewall	0-3	05/09/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	160

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-208a	Sidewall	0 - 2	03/29/2023	Excavated	<0.00102	**0.00871**	<25.5	**3,320**	**446**	**3,760**	**4,590**
C-208a	Sidewall	0-3	05/09/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	182
C-208b	Sidewall	0-3	05/09/2023	In-Situ	**0.00445**	**0.00703**	<25.0	<25.0	<25.0	<25.0	176
C-209a	Sidewall	0 - 2	03/29/2023	Excavated	<0.00102	<0.00204	<25.5	**72.0**	<25.5	**72.0**	**704**
C-209a	Sidewall	0-3	05/09/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	118
C-209b	Sidewall	0-3	05/09/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	63.2
C-210a	Sidewall	0 - 2	03/29/2023	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**657**
C-210a	Sidewall	0-3	05/09/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	126
C-210b	Sidewall	0-3	05/09/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	162
C-211	Sidewall	0 - 2	03/29/2023	Excavated	<0.00104	<0.00208	<26.0	**108**	<26.0	**108**	**1,580**
C-211	Sidewall	0-3	05/09/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	403
C-212	Bottom	2	04/27/2023	Excavated	<0.00101	<0.00202	<25.3	**1,400**	**107**	**1,510**	140
C-212	Bottom	4.1	06/26/2023	In-Situ	<0.00200	<0.00399	<50.0	**157**	<50.0	**157**	1,020
C-213	Bottom	2	04/27/2023	Excavated	<0.00103	<0.00206	<25.8	**182**	<25.8	**182**	**1,840**
C-213	Bottom	4.1	06/26/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,430
C-214	Bottom	2	04/27/2023	Excavated	<0.00105	<0.00211	<26.3	**107**	<26.3	**107**	**1,280**
C-214	Bottom	4.1	06/26/2023	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	904
C-215	Bottom	2	04/27/2023	Excavated	<0.00105	<0.00211	<26.3	**110**	<26.3	**110**	**1,000**
C-215	Bottom	4.1	06/26/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	746
C-216	Bottom	2	04/27/2023	Excavated	<0.00103	<0.00206	**76.5**	**2,140**	**62.8**	**2,280**	**3,810**
C-216	Bottom	4.1	06/26/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2,410
C-217	Bottom	2	04/27/2023	Excavated	<0.00102	<0.00104	<25.5	**141**	<25.5	**141**	**2,880**
C-217	Bottom	4.1	06/26/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	3,270
C-218	Bottom	2	04/27/2023	Excavated	<0.00106	<0.00213	<26.6	**57.6**	<26.6	**57.6**	**652**
C-218	Bottom	4.1	06/26/2023	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	573
C-219	Bottom	2	04/27/2023	Excavated	<0.00102	<0.00104	<25.5	**145**	<25.5	**145**	**1,030**
C-219	Bottom	4.1	06/26/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	284

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-220	Bottom	2	04/27/2023	Excavated	<0.00103	<0.00206	<25.8	**117**	<25.8	<25.8	**1,830**
C-220	Bottom	4.1	06/26/2023	In-Situ	<0.00199	<0.00398	<49.9	**54.1**	<49.9	**54.1**	1,090
C-221	Bottom	2	04/27/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	496
C-222	Bottom	2	04/27/2023	Excavated	<0.00102	<0.00204	<25.5	**97.2**	<25.5	**97.2**	**766**
C-222	Bottom	4.1	06/26/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	429
C-223	Bottom	2	04/27/2023	Excavated	<0.00102	<0.00204	<25.5	**108**	<25.5	**108**	**2,780**
C-223	Bottom	4.1	06/26/2023	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	619
C-224	Bottom	2	04/27/2023	Excavated	<0.00101	<0.00202	<25.3	**52.6**	<25.3	<25.3	**1,150**
C-224	Bottom	4.1	06/26/2023	In-Situ	<0.00198	<0.00396	<50.0	**56.2**	<50.0	**56.2**	2,180
C-225	Bottom	2	04/27/2023	Excavated	<0.00103	<0.00206	<25.8	**100**	<25.8	**100**	514
C-225	Bottom	4.1	06/26/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	323
C-226	Bottom	2	04/27/2023	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**1,150**
C-226	Bottom	4.1	06/26/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	524
C-227a	Sidewall	0-2	04/27/2023	Excavated	<0.00103	<0.00206	<25.8	**181**	<25.8	**181**	**1,640**
C-227a	Sidewall	0-4.1	06/26/2023	Excavated	<0.00200	<0.00400	<49.9	**350**	**74.2**	**424**	**7,120**
C-227a	Sidewall	0-4.1	07/12/2023	In-Situ	<0.00196	<0.00396	<50.1	<50.1	<50.1	<50.1	239
C-227b	Sidewall	0-4.1	07/12/2023	In-Situ	<0.00200	<0.00400	<50.4	<50.4	<50.4	<50.4	203
C-228	Bottom	4.1	04/28/2023	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	561
C-229	Bottom	4.1	04/28/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	668
C-230	Bottom	4.1	04/28/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	1,240
C-231	Bottom	4.1	04/28/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	3,200
C-232	Bottom	4.1	04/28/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	795
C-233	Sidewall	0-4.1	04/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	156
C-234	Bottom	4.1	04/28/2023	In-Situ	<0.00101	<0.00202	<25.3	**56.1**	<25.3	**56.1**	282
C-235	Bottom	4.1	04/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	162
C-236	Bottom	4.1	04/28/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	60.4
C-237	Bottom	4.1	04/28/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	186

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-238	Bottom	4.1	04/28/2023	In-Situ	<0.00103	<0.00206	<25.8	**85.6**	<25.8	**85.6**	2,040
C-239	Bottom	4.1	04/28/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	402
C-240	Bottom	4.1	04/28/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	120
C-241	Bottom	4.1	04/28/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	91.6
C-242	Bottom	4.1	04/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	300
C-243	Bottom	4.1	04/28/2023	In-Situ	<0.00103	<0.00206	<25.8	**86.1**	<25.8	**86.1**	2,250
C-244	Bottom	0-4.1	04/28/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	148
C-245	Bottom	0-4.1	04/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	37.3
C-246	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	141
C-247	Bottom	3	05/03/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	79.4
C-248	Bottom	4.1	06/20/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	510
C-249	Bottom	2	05/09/2023	In-Situ	**0.00288**	**0.00415**	<25.0	<25.0	<25.0	<25.0	150
C-250	Bottom	2	05/09/2023	In-Situ	**0.00216**	**0.00335**	<25.0	<25.0	<25.0	<25.0	49.1
C-251	Bottom	2	05/09/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	309
C-252	Bottom	2	05/09/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	114
C-253	Bottom	2	05/09/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	226
C-254	Bottom	2	05/09/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	454
C-255	Bottom	2	05/09/2023	In-Situ	**0.00174**	<0.00202	<25.3	**47.0**	<25.3	**47.0**	237
C-256	Bottom	2	05/09/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	469
C-257	Bottom	2	05/09/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	429
C-258	Bottom	2	05/09/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	422
C-259	Bottom	2	05/09/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	342
C-260	Bottom	2	05/09/2023	In-Situ	<0.00101	<0.00202	<25.3	**55.6**	<25.3	**55.6**	503
C-261	Bottom	2	05/09/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	314
C-262	Sidewall	0-2	05/09/2023	In-Situ	**0.00370**	<0.00200	<25.5	<25.5	<25.5	<25.5	164
C-263	Sidewall	0-2	05/09/2023	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,100**
C-263	Sidewall	0-2	06/21/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	175

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/10,000*
C-264	Bottom	2	05/09/2023	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**613**
C-264	Bottom	4.1	06/20/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	264
C-265	Bottom	2	05/09/2023	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,110**
C-265	Bottom	4.1	06/20/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	522
C-266	Bottom	2	05/09/2023	In-Situ	**0.00302**	**0.00486**	<25.3	<25.3	<25.3	<25.3	195
C-267	Bottom	2	05/09/2023	In-Situ	**0.00205**	**0.00205**	<25.3	<25.3	<25.3	<25.3	**2,360**
C-267	Bottom	4.1	06/20/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	437
C-268	Bottom	2	05/09/2023	Excavated	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	491
C-269a	Sidewall	0-2	05/09/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**787**
C-269a	Sidewall	0-4.1	06/20/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	128
C-269b	Sidewall	0-4.1	06/20/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	428
C-269c	Sidewall	0-4.1	06/20/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	566
C-270	Sidewall	0-2	05/09/2023	Excavated	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	365
C-271	Bottom	3	07/27/2023	Excavated	<0.00201	<0.00402	<50.2	**292**	<50.2	**292**	**3,310**
C-271	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<50.3	**142**	<50.3	**142**	985
C-272	Bottom	3	08/09/2023	In-Situ	<0.00199	<0.00398	<49.7	**75.9**	<49.7	**75.9**	373
C-273	Bottom	3	08/09/2023	In-Situ	<0.00198	<0.00396	<49.6	**57.6**	<49.6	**57.6**	482
C-274	Bottom	3	07/27/2023	Excavated	<0.00201	<0.00402	<49.8	**107**	<49.8	**107**	**5,290**
C-274	Bottom	4.1	10/02/2023	In-Situ	<0.00200	<0.00401	<49.7	**156**	<49.7	**156**	1,040
C-275	Bottom	3	07/27/2023	Excavated	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	**1,370**
C-275	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	170
C-276	Bottom	3	08/09/2023	In-Situ	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	338
C-277	Bottom	3	08/09/2023	In-Situ	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	419
C-278	Bottom	3	07/27/2023	Excavated	<0.00200	<0.00400	<50.3	**365**	<50.3	**365**	**5,130**
C-278	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	104
C-279	Bottom	3	07/27/2023	Excavated	<0.00199	<0.00398	<50.4	**67.4**	<50.4	**67.4**	**3,330**
C-279	Bottom	4.1	10/02/2023	In-Situ	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	152

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-280	Bottom	3	08/09/2023	In-Situ	<0.00200	<0.00399	<50.1	**73.5**	<50.1	**73.5**	431
C-281	Bottom	3	08/09/2023	In-Situ	<0.00198	<0.00397	<49.5	<49.5	<49.5	<49.5	328
C-282	Bottom	4.1	08/09/2023	In-Situ	<0.00199	<0.00398	<50.5	**74.5**	<50.5	**74.5**	2,180
C-283	Bottom	2	08/09/2023	Excavated	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	**624**
C-283	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	597
C-284	Bottom	2	08/09/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	438
C-285	Bottom	2	08/09/2023	In-Situ	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	462
C-286	Bottom	2	08/09/2023	In-Situ	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	184
C-287	Bottom	3	08/09/2023	In-Situ	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	222
C-288	Bottom	2	08/21/2023	In-Situ	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	593
C-289	Bottom	2	08/09/2023	Excavated	<0.00200	<0.00399	<49.6	**121**	<49.6	**121**	**621**
C-289	Bottom	4.1	10/02/2023	In-Situ	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	504
C-290	Bottom	2	08/09/2023	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	347
C-291	Bottom	2	08/09/2023	Excavated	<0.00202	<0.00403	<50.3	**722**	<50.3	**722**	**1,700**
C-291	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	555
C-292	Bottom	2	08/09/2023	In-Situ	<0.00201	<0.00402	<50.5	**72.8**	<50.5	**72.8**	400
C-293	Bottom	3	08/09/2023	In-Situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	103
C-294	Bottom	3	08/09/2023	In-Situ	<0.00200	<0.00401	<50.1	**70.8**	<50.1	**70.8**	305
C-295	Bottom	3	08/09/2023	In-Situ	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	175
C-296	Bottom	3	07/20/2023	Excavated	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	**6,620**
C-296	Bottom	4.1	10/02/2023	In-Situ	<0.00200	<0.00399	<50.5	**295**	<50.5	**295**	905
C-297	Bottom	3	07/20/2023	Excavated	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	**1,050**
C-297	Bottom	4.1	10/02/2023	In-Situ	<0.00201	<0.00402	<50.0	**231**	<50.0	**231**	746
C-298	Bottom	4.1	08/09/2023	In-Situ	<0.00200	<0.00399	<49.8	**86.2**	<49.8	**86.2**	2,070
C-299	Bottom	4.1	08/09/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	517
C-300	Bottom	4.1	08/09/2023	In-Situ	<0.00198	<0.00396	<50.0	**59.3**	<50.0	**59.3**	337
C-301	Bottom	4.1	08/09/2023	In-Situ	<0.00201	<0.00402	<50.2	**56.7**	<50.2	**56.7**	3,610

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-302	Bottom	4.1	08/09/2023	In-Situ	<0.00202	<0.00403	<50.2	**168**	<50.2	**168**	1,730
C-303	Bottom	4.1	08/09/2023	In-Situ	<0.00200	<0.00399	<50.4	**75.7**	<50.4	**75.7**	1,320
C-304	Bottom	4.1	08/09/2023	In-Situ	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	1,980
C-305	Bottom	4.1	08/09/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	822
C-306	Bottom	3	07/20/2023	Excavated	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	**2,140**
C-306	Bottom	4.1	10/02/2023	In-Situ	<0.00200	<0.00401	<49.7	**239**	<49.7	**239**	776
C-307	Bottom	3	07/20/2023	Excavated	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	**1,500**
C-307	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	51.0
C-308	Bottom	3	07/20/2023	Excavated	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	**1,360**
C-308	Bottom	4.1	10/02/2023	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	55.6
C-309	Bottom	2	08/09/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	352
C-310	Sidewall	0-2	08/21/2023	In-Situ	<0.00200	<0.00400	<50.4	**2,140**	<50.4	**2,140**	**26,500**
C-311	Sidewall	0-4.1	08/21/2023	In-Situ	<0.00199	<0.00398	<50.5	**1,950**	<50.5	**1,950**	**11,700**
C-312	Sidewall	0-4.1	08/21/2023	In-Situ	<0.00198	**0.01050**	<50.5	**874**	<50.5	**874**	**10,100**
C-313	Sidewall	0-2	08/21/2023	In-Situ	<0.00202	**0.00740**	<49.8	**774**	<49.8	**774**	**8,900**
C-314	Sidewall	0-2	08/21/2023	In-Situ	<0.00201	**0.00502**	<49.9	**1,640**	<49.9	**1,640**	**25,400**
C-315	Sidewall	0-4.1	08/21/2023	In-Situ	<0.00198	**0.00392**	<49.7	<49.7	<49.7	<49.7	167
C-316	Sidewall	0-3	08/21/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**8,650**

Table 2
Confirmation Soil Sample Analytical Data Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***

Notes:

Analysis performed by Permian Basin Environmental Lab (PBEL), in Midland, Texas, or Eurofins-Xenco (Xenco), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).

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

<: indicates that parameter concentration is below method analytical reporting limit

Depth reported in feet below ground surface (bgs)

Bold and highlighted indicates parameter concentration is above NMOCD closure criteria

Bold and highlighted indicates confirmation sample areas where a deferral is being requested

Table 3
Backfill Soil Sample Analytical Summary
Pliny the Elder #215H
Eddy County, New Mexico
32°20'18.92"N, 104°12'06.02"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100***	***600***
BF-1	Backfill	--	6/19/2023	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	44.0
BF-2	Backfill	--	6/19/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	32.4
BF-3	Backfill	--	6/19/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	33.7
BF-4	Backfill	--	6/19/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	34.2
BF-5	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	32.3
BF-6	Backfill	--	6/19/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	38.5
BF-7	Backfill	--	6/19/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	41.6
BF-8	Backfill	--	6/19/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	36.8
BF-9	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	36.0
BF-10	Backfill	--	6/19/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	38.5
BF-11	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	120
BF-12	Backfill	--	6/19/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	300
BF-13	Backfill	--	6/19/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	299
BF-14	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	224
BF-15	Backfill	--	6/19/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	168
BF-16	Backfill	--	6/19/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	251
BF-17	Backfill	--	6/19/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	284
BF-18	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	201
BF-19	Backfill	--	6/19/2023	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	144
BF-20	Backfill	--	6/19/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	221

Notes:

Analysis performed by Eurofins-Xenco Laboratories (Xenco), Midland, Texas by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

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

<: indicates that parameter concentration is below method analytical reporting limit

Bold and Highlighted indicates parameter concentration above NMOCD closure criteria

Figures

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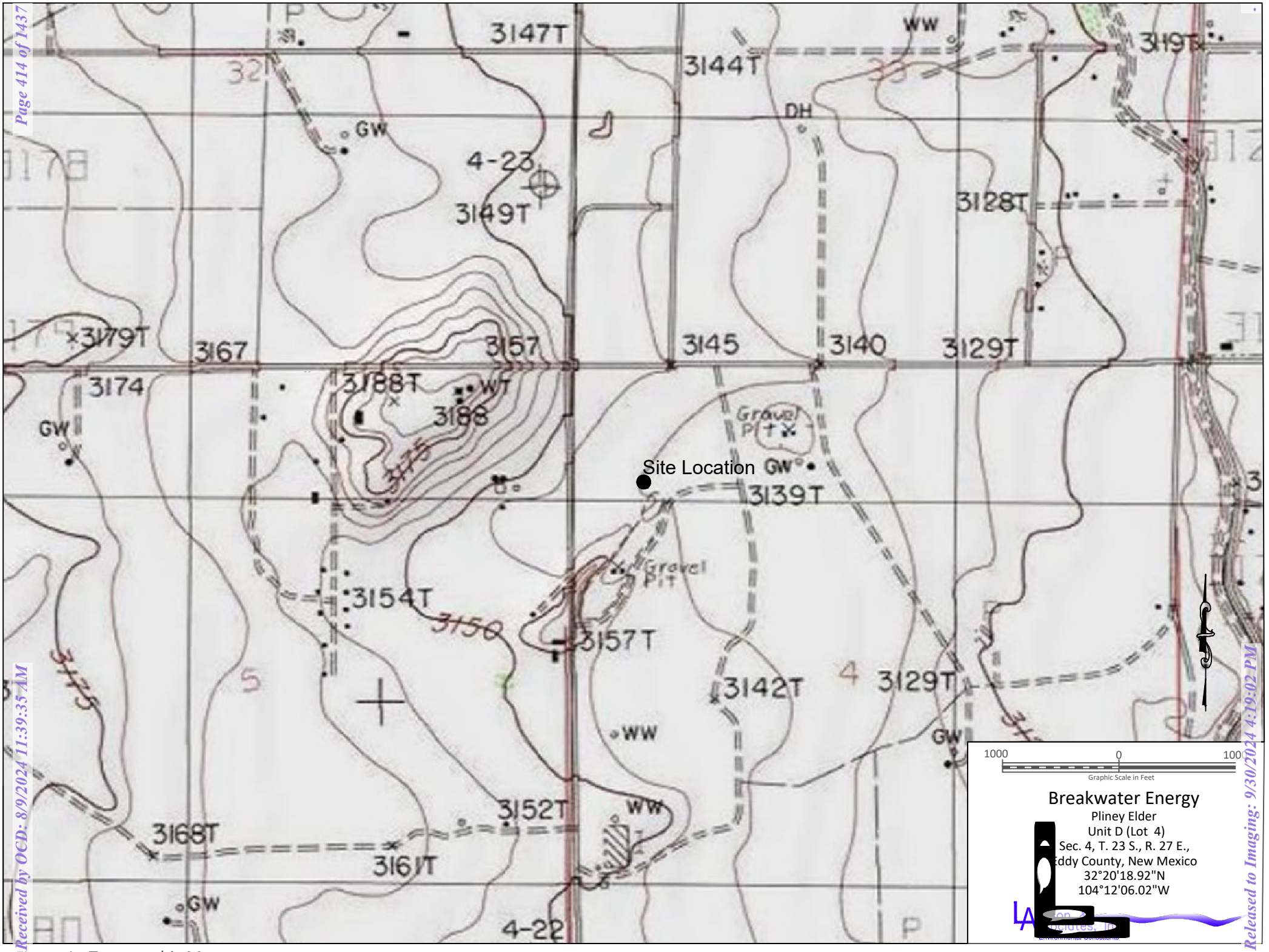


Figure 1 - Topographic Map

Received by OCD: 8/9/2024 11:39:35 AM

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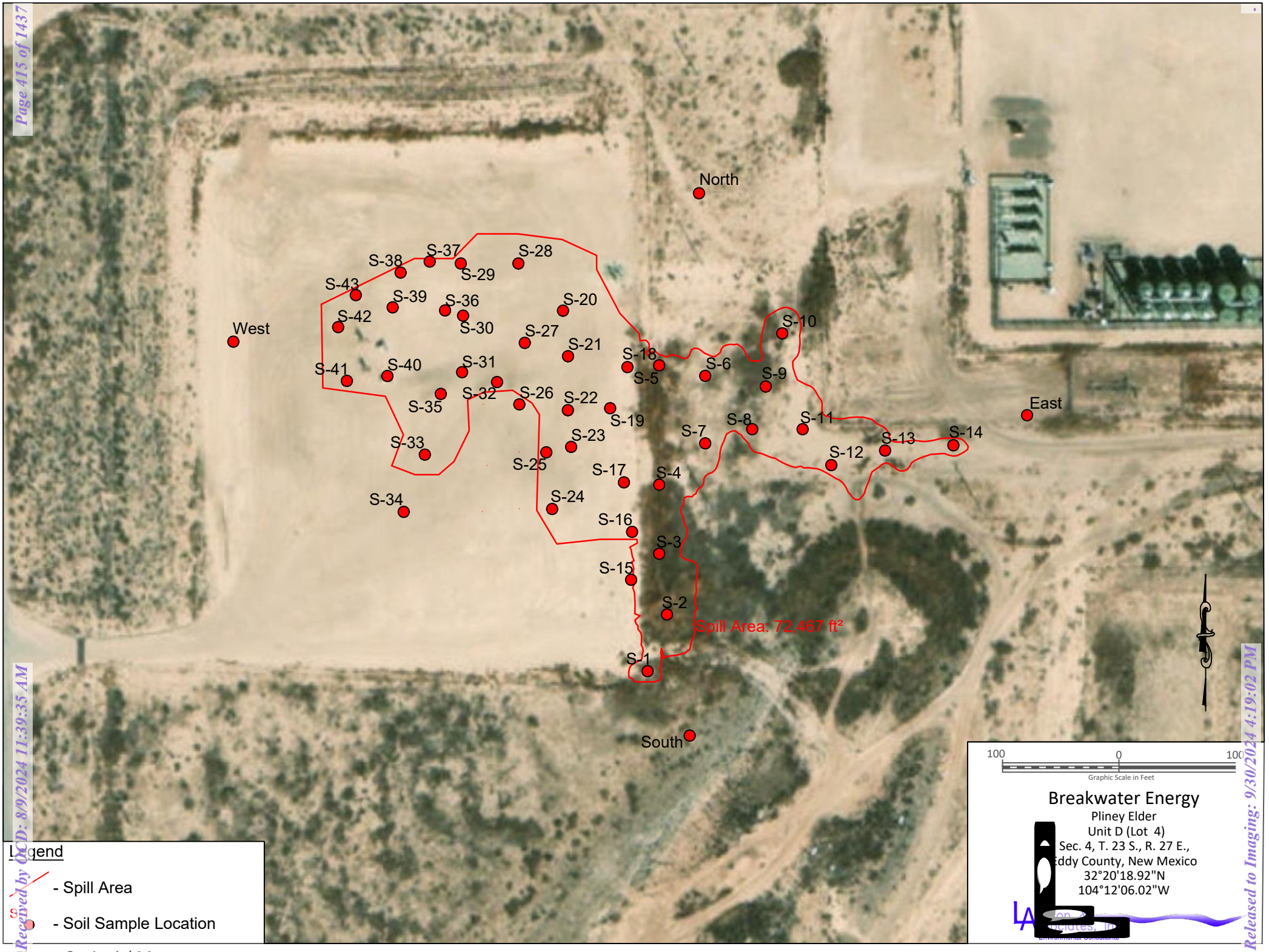


Figure 2 - Aerial Map

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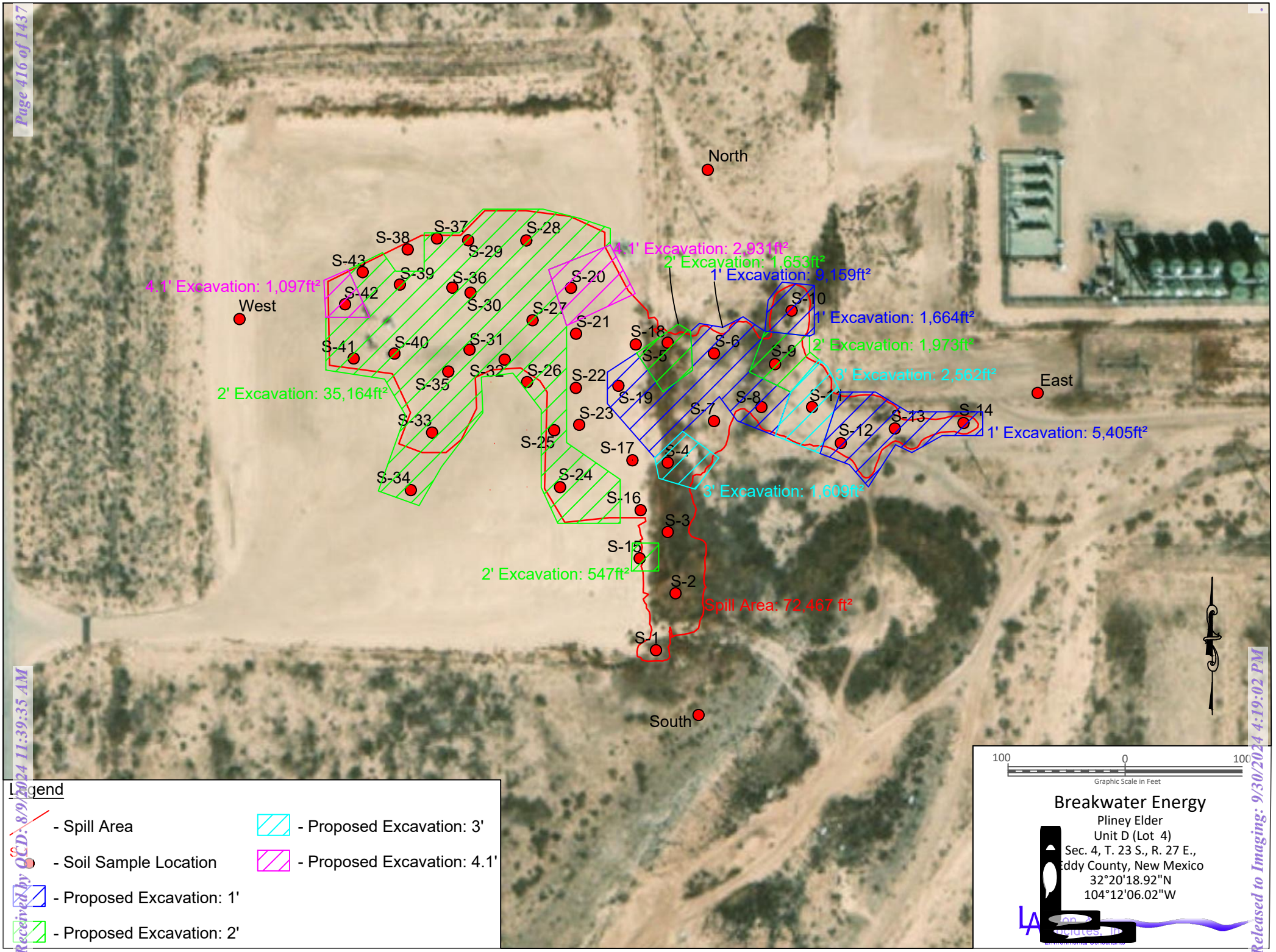


Figure 3 - Aerial Map Showing Proposed Excavation Areas

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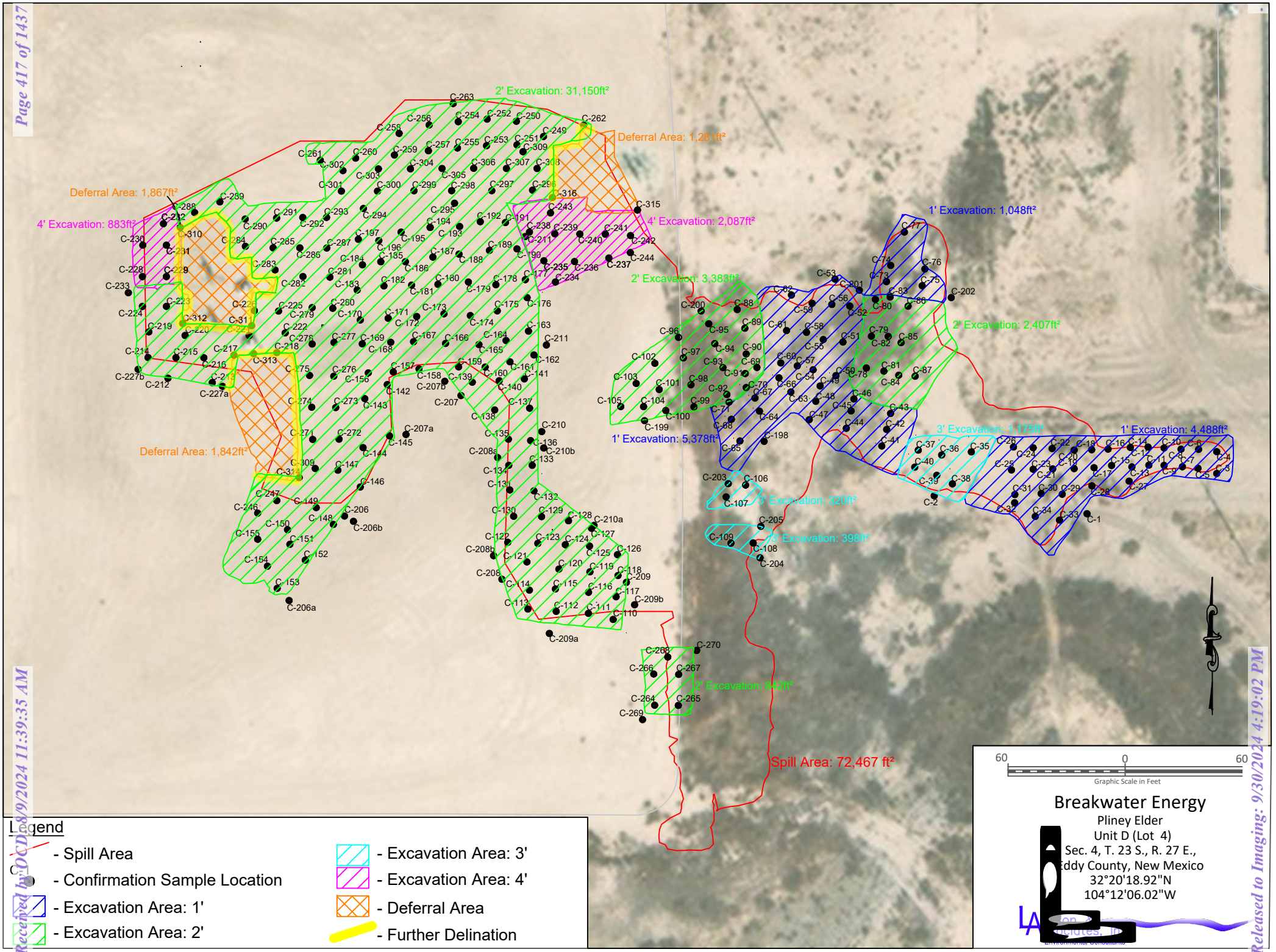


Figure 4 - Aerial Map Showing Excavation Areas and Confirmation Samples

Received by OCD: 8/9/2024 11:39:35 AM

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Appendix A

Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	[redacted]
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **TAP ROCK OPERATING**	OGRID **372043**
Contact Name **CHRISTIAN COMBS**	Contact Telephone **720-360-4028**
Contact email **CCOMBS@TAPRK.COM**	Incident # *(assigned by OCD)* ***NAPP2232633250***
Contact mailing address	

Location of Release Source

Latitude **32.338831** Longitude **-104.202270**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **PLINY THE ELDER #215H**	Site Type **PRODUCTION**
Date Release Discovered **11/21/2022**	API# *(if applicable)* ***30-015-45558***

Unit Letter	Section	Township	Range	County
D	**4**	**23S**	**27E**	**EDDY**

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) **612.42**	Volume Recovered (bbls) **0**
	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
FRAC TANK RAN OVER DURING COMPLETION OPERATIONS. FLUID RELEASED ONTO PAD AND PASTURE AREA.

State of New Mexico
Oil Conservation Division

Incident ID	[redacted]
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? **VOLUME OF RELEASE**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **EMAIL OF SPILL NOTIFICAITON WAS SENT BY NATALIE GLADDEN/ESS TO OCD, BRATCHER, NOBUI, HAMPLET AND HARIMON ON 11/22/22 AT 9:11AM.**	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY**

Signature: Natalie Gladden Date: 11/22/22

email: **natalie@energystaffingllc.com** Telephone: **(575) 390-6397**

OCD Only

Received by: [redacted] Date: [redacted]

Appendix B

NMOCD Communications

From:	Natalie Gladden
To:	ocdonline, emnrd, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD; Nobui, Jennifer, EMNRD
Cc:	Bill Ramsey; Christian Combs; Dakoatah Montanez
Subject:	[EXTERNAL] TAP ROCK - SPILL NOTIFICATION - PLINY THE ELDER #215H
Date:	Tuesday, November 22, 2022 9:10:58 AM
Attachments:	image001.png
Importance:	High

[EXTERNAL] This email originated from outside your organization. Do not trust links or attachments.

All,

On 11/21/2022 around 6:50pm, the frac tank that was being used during the completion phase overflowed causing the release. Please use this email as the official spill notification. The C141 will be uploaded shortly.

Details:

Pliny the Elder #215h
DOR: 11/21/22
Released: 612.42bbls of produced water
Recovered: 0bbls

If you have any questions or concerns, please let me know.

Sincerely,

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

ESS

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

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 188896
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area needs confirmation samples representing no more than 200 ft2. 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 work plan has been reviewed.	6/22/2023

Daniel St. Germain

From: Daniel St. Germain
Sent: Thursday, July 6, 2023 1:17 PM
To: Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc: Mark Larson; Robert Nelson; hbutler@selectenergy.com; Timsan Bricker
Subject: Backfill Notification - Pliny Elder Produced Water Release (nAPP2232633250)
Attachments: Table-2_Confirmation-Sample-Analytical-Summary_Pliney-Elder.pdf; Figure 3 - Aerial Map Showing Excavation Areas and Confirmation Samples_002.pdf

Hello Mr. Hamlet and Ms. Nobui ,

Larson & Associates, Inc. (LAI), on behalf of Select Energy Services, submits the attached confirmation sample analytical data summary and excavation drawing with sample locations to the New Mexico Oil Conservation Division (NMOCD) to provide the required two (2) business day notice to NMOCD prior to backfilling portions of the excavation at the Pliny Elder produced water release (nAPP2232633250) in Lea County, New Mexico. The portions to be backfilled include C-1 through C-270, excluding the area immediately surrounding C-227. The area highlighted in the excavation drawing requires hydro-excavation due proximity to gas lines. Please feel free to contact Halie Butler with Select Energy at (281) 467-3153 or hbutler@selectenergy.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, Robert Nelson (432) 664-4804 or rnelson@laenvironmental.com or me with any questions or concerns.

Respectfully,

Daniel St. Germain
Geologist
Office: (432) 687-0901
Cell: (432) 664-5357
dstgermain@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

Daniel St. Germain

From: Daniel St. Germain
Sent: Thursday, October 19, 2023 3:42 PM
To: Hamlet, Robert, EMNRD
Cc: Mark Larson; Robert Nelson; Halie Butler; Timsan Bricker
Subject: Backfill Notification - Pliny Elder Produced Water Release (nAPP2232633250)
Attachments: Figure 3 - Aerial Map Showing Excavation Areas and Confirmation Samples with Further delination.pdf; Table-2_Confirmation-Sample-Analytical-Summary_Pliney-Elder.pdf

Hello Mr. Hamlet,

Larson & Associates, Inc. (LAI), on behalf of Select Water, submits the attached confirmation sample analytical data summary and excavation drawing with sample locations to the New Mexico Oil Conservation Division (NMOCD) to provide the required two (2) business day notice to NMOCD prior to backfilling the excavation at the Pliny Elder produced water release (nAPP2232633250) in Eddy County, New Mexico. Please feel free to contact Halie Butler with Select Energy at (281) 467-3153 or hbutler@selectwater.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, Robert Nelson (432) 664-4804 or rnelson@laenvironmental.com or me with any questions or concerns.

Respectfully,

Daniel St. Germain
Geologist
Office: (432) 687-0901
Cell: (432) 664-5357
dstgermain@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

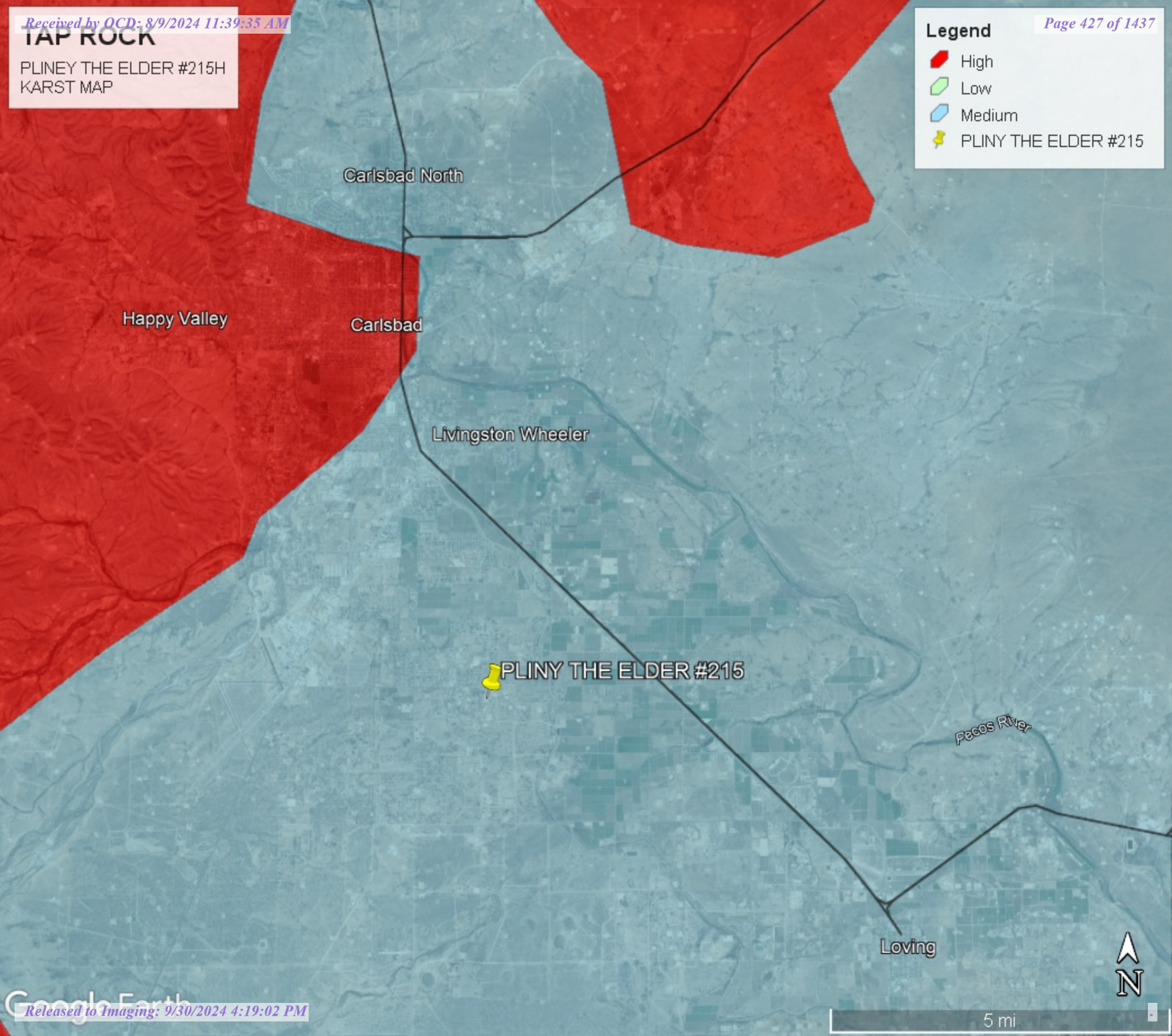
Appendix C

Karst Potential Map

Received by OCD: 8/9/2024 11:39:35 AM

TAP ROCK

PLINEY THE ELDER #215H
KARST MAP



Released to Imaging: 9/30/2024 4:19:02 PM

Appendix D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/28/2023 9:48:49 PM

JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-32368-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Holly Taylor

Generated
8/28/2023 9:48:49 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Laboratory Job ID: 880-32368-1
SDG: 22-0107-02

Table of Contents

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Method Summary 17
Sample Summary 18
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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-32368-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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
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: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Job ID: 880-32368-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32368-1

Receipt
The samples were received on 8/22/2023 10:35 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 time was -1.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-42 10' (880-32368-1), S-42 15' (880-32368-2) and S-20 15' (880-32368-3).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61216/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-42 10' (880-32368-1), S-42 15' (880-32368-2) and S-20 15' (880-32368-3). 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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61031 and analytical batch 880-61042 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-42 10' (880-32368-1), S-42 15' (880-32368-2) and S-20 15' (880-32368-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61042/31), (CCV 880-61042/47), (CCV 880-61042/58), (LCS 880-61031/2-A) and (LCSD 880-61031/3-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Client Sample ID: S-42 10'

Date Collected: 08/21/23 11:30
Date Received: 08/22/23 10:35

Lab Sample ID: 880-32368-1

Matrix: Solid

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		08/26/23 18:08	08/27/23 18:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:27	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/26/23 18:08	08/27/23 18:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/26/23 18:08	08/27/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*08/26/23 18:08*	*08/27/23 18:27*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/26/23 18:08*	*08/27/23 18:27*	*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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/28/23 22:20	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	<50.5	U	50.5		mg/Kg		08/24/23 16:34	08/26/23 04:07	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/24/23 16:34	08/26/23 04:07	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/24/23 16:34	08/26/23 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/26/23 04:07*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*08/24/23 16:34*	*08/26/23 04:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2380**		25.0		mg/Kg			08/25/23 00:46	5

Client Sample ID: S-42 15'

Date Collected: 08/21/23 11:45
Date Received: 08/22/23 10:35

Lab Sample ID: 880-32368-2

Matrix: Solid

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		08/26/23 18:08	08/27/23 18:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:53	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/26/23 18:08	08/27/23 18:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 18:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/26/23 18:08	08/27/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*08/26/23 18:08*	*08/27/23 18:53*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/26/23 18:08*	*08/27/23 18:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Client Sample ID: S-42 15'

Date Collected: 08/21/23 11:45
Date Received: 08/22/23 10:35

Lab Sample ID: 880-32368-2
Matrix: Solid

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			08/28/23 12:51	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			08/28/23 22:20	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		08/24/23 16:34	08/26/23 04:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/24/23 16:34	08/26/23 04:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/24/23 16:34	08/26/23 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/26/23 04:28*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*08/24/23 16:34*	*08/26/23 04:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		4.97		mg/Kg			08/25/23 00:53	1

Client Sample ID: S-20 15'

Date Collected: 08/21/23 12:08
Date Received: 08/22/23 10:35

Lab Sample ID: 880-32368-3
Matrix: Solid

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		08/26/23 18:08	08/27/23 19:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/26/23 18:08	08/27/23 19:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/26/23 18:08	08/27/23 19:20	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/26/23 18:08	08/27/23 19:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/26/23 18:08	08/27/23 19:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/26/23 18:08	08/27/23 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*08/26/23 18:08*	*08/27/23 19:20*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/26/23 18:08*	*08/27/23 19:20*	*1*

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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/28/23 22:20	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	<49.6	U	49.6		mg/Kg		08/24/23 16:34	08/26/23 04:50	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/24/23 16:34	08/26/23 04:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Client Sample ID: S-20 15'
Date Collected: 08/21/23 12:08
Date Received: 08/22/23 10:35

Lab Sample ID: 880-32368-3
Matrix: Solid

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)	<49.6	U	49.6		mg/Kg		08/24/23 16:34	08/26/23 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/26/23 04:50*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/24/23 16:34*	*08/26/23 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		5.05		mg/Kg			08/25/23 01:13	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32368-1	S-42 10'	158 S1+	85
880-32368-2	S-42 15'	143 S1+	80
880-32368-3	S-20 15'	141 S1+	86
LCS 880-61216/1-A	Lab Control Sample	126	86
LCSD 880-61216/2-A	Lab Control Sample Dup	135 S1+	86
MB 880-61206/8	Method Blank	73	79
MB 880-61216/5-A	Method Blank	78	78

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32368-1	S-42 10'	142 S1+	112
880-32368-2	S-42 15'	137 S1+	109
880-32368-3	S-20 15'	133 S1+	111
LCS 880-61031/2-A	Lab Control Sample	137 S1+	123
LCSD 880-61031/3-A	Lab Control Sample Dup	143 S1+	115
MB 880-61031/1-A	Method Blank	254 S1+	200 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61206/8
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			08/26/23 20:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/26/23 20:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*		*08/26/23 20:26*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*		*08/26/23 20:26*	*1*

Lab Sample ID: MB 880-61216/5-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61216

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/26/23 18:08*	*08/27/23 09:42*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/26/23 18:08*	*08/27/23 09:42*	*1*

Lab Sample ID: LCS 880-61216/1-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61216

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08973		mg/Kg		90	70 - 130		
Toluene			0.100	0.09604		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09490		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.1835		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09263		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-61216/2-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61216

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09799		mg/Kg		98	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-61216/2-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61216

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1084		mg/Kg		108	70 - 130	12	35
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130	8	35
m,p-Xylenes			0.200	0.1981		mg/Kg		99	70 - 130	8	35
o-Xylene			0.100	0.1051		mg/Kg		105	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

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

Lab Sample ID: MB 880-61031/1-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61031

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		08/24/23 16:34	08/25/23 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 16:34	08/25/23 20:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 16:34	08/25/23 20:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*254*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/25/23 20:41*	*1*
o-Terphenyl (Surr)	*200*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/25/23 20:41*	*1*

Lab Sample ID: LCS 880-61031/2-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-61031/3-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1019		mg/Kg		102	70 - 130	3	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-61031/3-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61031

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*143*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60950/1-A
Matrix: Solid
Analysis Batch: 61020

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			08/24/23 23:53	1

Lab Sample ID: LCS 880-60950/2-A
Matrix: Solid
Analysis Batch: 61020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-60950/3-A
Matrix: Solid
Analysis Batch: 61020

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	257.2		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-32368-1
Project/Site: Pliny Elder SDG: 22-0107-02

GC VOA

Analysis Batch: 61206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	8021B	61216
880-32368-2	S-42 15'	Total/NA	Solid	8021B	61216
880-32368-3	S-20 15'	Total/NA	Solid	8021B	61216
MB 880-61206/8	Method Blank	Total/NA	Solid	8021B	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	8021B	61216
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	8021B	61216
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61216

Prep Batch: 61216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	5035	
880-32368-2	S-42 15'	Total/NA	Solid	5035	
880-32368-3	S-20 15'	Total/NA	Solid	5035	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 61309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	Total BTEX	
880-32368-2	S-42 15'	Total/NA	Solid	Total BTEX	
880-32368-3	S-20 15'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	8015NM Prep	
880-32368-2	S-42 15'	Total/NA	Solid	8015NM Prep	
880-32368-3	S-20 15'	Total/NA	Solid	8015NM Prep	
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	8015B NM	61031
880-32368-2	S-42 15'	Total/NA	Solid	8015B NM	61031
880-32368-3	S-20 15'	Total/NA	Solid	8015B NM	61031
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015B NM	61031
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61031
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61031

Analysis Batch: 61404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Total/NA	Solid	8015 NM	
880-32368-2	S-42 15'	Total/NA	Solid	8015 NM	
880-32368-3	S-20 15'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

HPLC/IC

Leach Batch: 60950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Soluble	Solid	DI Leach	
880-32368-2	S-42 15'	Soluble	Solid	DI Leach	
880-32368-3	S-20 15'	Soluble	Solid	DI Leach	
MB 880-60950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 61020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32368-1	S-42 10'	Soluble	Solid	300.0	60950
880-32368-2	S-42 15'	Soluble	Solid	300.0	60950
880-32368-3	S-20 15'	Soluble	Solid	300.0	60950
MB 880-60950/1-A	Method Blank	Soluble	Solid	300.0	60950
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	300.0	60950
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60950

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Client Sample ID: S-42 10'

Lab Sample ID: 880-32368-1

Date Collected: 08/21/23 11:30
Date Received: 08/22/23 10:35

Matrix: Solid

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	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 18:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61309	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61404	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 04:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61020	08/25/23 00:46	CH	EET MID

Client Sample ID: S-42 15'

Lab Sample ID: 880-32368-2

Date Collected: 08/21/23 11:45
Date Received: 08/22/23 10:35

Matrix: Solid

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	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 18:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61309	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61404	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 04:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61020	08/25/23 00:53	CH	EET MID

Client Sample ID: S-20 15'

Lab Sample ID: 880-32368-3

Date Collected: 08/21/23 12:08
Date Received: 08/22/23 10:35

Matrix: Solid

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	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 19:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61309	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61404	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 04:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61020	08/25/23 01:13	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-32368-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-32368-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-32368-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32368-1	S-42 10'	Solid	08/21/23 11:30	08/22/23 10:35
880-32368-2	S-42 15'	Solid	08/21/23 11:45	08/22/23 10:35
880-32368-3	S-20 15'	Solid	08/21/23 12:08	08/22/23 10:35

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32368 No. 3127

CHAIN-OF-CUSTODY

8/28/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 8/22/2023 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Pinn Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-42 10'		8/21/23	1130	S	1				X		X		X	X	X																		X		
S-42 15'		"	1145	"	"				"		X		X	X	X																		X		
S-20 15'		"	1208	"	"				"		X		X	X	X																		X		

TOTAL 3

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel Stuhl	8/22/23	Miramer 8.22.23
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature) 1035
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: -1.2/1.7 THERM#: 188
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

880-32368 Chain of Custody

Page 19 of 20

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-32368-1
SDG Number: 22-0107-02

Login Number: 32368
List Number: 1
Creator: Rodriguez, Leticia

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3C27003

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/06/23

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

Project: Piney Elder
Project Number: 22-0107-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-1 @ 0'-1'	3C27003-01	Soil	03/22/23 09:00	03-27-2023 10:07
C-2 @ 0'-3'	3C27003-02	Soil	03/22/23 09:05	03-27-2023 10:07
C-3 @ 1'	3C27003-03	Soil	03/22/23 09:55	03-27-2023 10:07
C-4 @ 1'	3C27003-04	Soil	03/22/23 10:00	03-27-2023 10:07
C-5 @ 1'	3C27003-05	Soil	03/22/23 10:05	03-27-2023 10:07
C-6 @ 1'	3C27003-06	Soil	03/22/23 10:10	03-27-2023 10:07
C-7 @ 1'	3C27003-07	Soil	03/22/23 10:15	03-27-2023 10:07
C-8 @ 1'	3C27003-08	Soil	03/22/23 10:20	03-27-2023 10:07
C-9 @ 1'	3C27003-09	Soil	03/22/23 10:45	03-27-2023 10:07
C-10 @ 1'	3C27003-10	Soil	03/22/23 10:50	03-27-2023 10:07
C-11 @ 1'	3C27003-11	Soil	03/22/23 10:55	03-27-2023 10:07
C-12 @ 1'	3C27003-12	Soil	03/22/23 11:00	03-27-2023 10:07
C-13 @ 1'	3C27003-13	Soil	03/22/23 11:05	03-27-2023 10:07
C-14 @ 1'	3C27003-14	Soil	03/22/23 11:10	03-27-2023 10:07
C-15 @ 1'	3C27003-15	Soil	03/22/23 11:15	03-27-2023 10:07
C-16 @ 1'	3C27003-16	Soil	03/22/23 11:40	03-27-2023 10:07
C-17 @ 1'	3C27003-17	Soil	03/22/23 11:45	03-27-2023 10:07
C-18 @ 1'	3C27003-18	Soil	03/22/23 11:50	03-27-2023 10:07
C-19 @ 1'	3C27003-19	Soil	03/22/23 11:55	03-27-2023 10:07
C-20 @ 1'	3C27003-20	Soil	03/22/23 12:00	03-27-2023 10:07
C-21 @ 1'	3C27003-21	Soil	03/22/23 12:05	03-27-2023 10:07
C-22 @ 1'	3C27003-22	Soil	03/22/23 12:10	03-27-2023 10:07
C-23 @ 1'	3C27003-23	Soil	03/22/23 12:45	03-27-2023 10:07
C-24 @ 1'	3C27003-24	Soil	03/22/23 12:55	03-27-2023 10:07
C-25 @ 1'	3C27003-25	Soil	03/22/23 13:05	03-27-2023 10:07
C-26 @ 1'	3C27003-26	Soil	03/22/23 13:10	03-27-2023 10:07
C-27 @ 1'	3C27003-27	Soil	03/22/23 13:20	03-27-2023 10:07
C-28 @ 1'	3C27003-28	Soil	03/22/23 13:25	03-27-2023 10:07
C-29 @ 1'	3C27003-29	Soil	03/22/23 13:30	03-27-2023 10:07
C-30 @ 1'	3C27003-30	Soil	03/22/23 13:40	03-27-2023 10:07
C-31@ 1'	3C27003-31	Soil	03/22/23 13:50	03-27-2023 10:07
C-32 @ 1'	3C27003-32	Soil	03/22/23 14:00	03-27-2023 10:07
C-33 @ 1'	3C27003-33	Soil	03/22/23 14:10	03-27-2023 10:07
C-34 @ 1'	3C27003-34	Soil	03/22/23 14:15	03-27-2023 10:07

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-35 @ 3'	3C27003-35	Soil	03/22/23 14:40	03-27-2023 10:07
C-36 @ 3'	3C27003-36	Soil	03/22/23 14:50	03-27-2023 10:07
C-37 @ 3'	3C27003-37	Soil	03/22/23 14:55	03-27-2023 10:07
C-38 @ 3'	3C27003-38	Soil	03/22/23 15:00	03-27-2023 10:07
C-39 @ 3'	3C27003-39	Soil	03/22/23 15:10	03-27-2023 10:07
C-40 @ 3'	3C27003-40	Soil	03/22/23 15:20	03-27-2023 10:07

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-1 @ 0'-1'

3C27003-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 18:59	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 18:59	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 18:59	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 18:59	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 18:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 18:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.7 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 18:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 04:42	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 04:42	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 04:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.9 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 04:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.6 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 04:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 04:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**220**	1.08	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 14:14	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-2 @ 0'-3'

3C27003-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 19:20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.3 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 19:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:07	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:07	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.1 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 05:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.1 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 05:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 05:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**36.7**	1.05	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 14:30	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-3 @ 1'

3C27003-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:40	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:40	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:40	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:40	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 19:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.1 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 19:40*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*81.9 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 19:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:31	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:31	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 05:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.5 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 05:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.7 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 05:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 05:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**32.6**	1.03	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 14:45	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-4 @ 1'

3C27003-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:01	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:01	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:01	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:01	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.9 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 20:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 20:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 06:46	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 06:46	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 06:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 06:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.2 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 06:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 06:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**41.7**	1.04	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 15:00	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-5 @ 1'

3C27003-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:21	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C2902	03/29/23 09:11	03/29/23 20:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 20:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*80-120*		*P3C2902*	*03/29/23 09:11*	*03/29/23 20:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:12	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:12	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.2 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 07:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.8 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 07:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 07:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**36.6**	1.05	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 15:46	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-6 @ 1'

3C27003-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:06	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:06	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:06	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:06	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:37	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:37	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 07:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.9 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 07:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.1 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 07:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 07:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**125**	1.04	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 16:32	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-7 @ 1'

3C27003-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:27	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:27	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:27	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:27	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:01	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:01	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 08:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**33.5**	1.05	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 16:48	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-8 @ 1'

3C27003-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:47	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:47	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:47	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:47	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/29/23 23:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/29/23 23:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:26	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:26	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.4 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 08:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**52.4**	1.06	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 17:03	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-9 @ 1'

3C27003-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:08	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:08	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:08	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:08	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:08*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:50	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:50	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 08:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.5 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.4 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 08:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 08:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**49.8**	1.06	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 17:18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-10 @ 1'

3C27003-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:28	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:28	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:28	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:28	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.9 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 09:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.7 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 09:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 09:15	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**284**	1.06	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 17:34	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-11 @ 1'

3C27003-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:49	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:49	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:49	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:49	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 00:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 00:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:39	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:39	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 09:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.1 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 09:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 09:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 09:39	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**237**	1.05	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 17:49	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-12 @ 1'

3C27003-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:10	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:10	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:10	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:10	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:03	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:03	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 10:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.6 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 10:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 10:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**171**	1.06	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 18:04	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-13 @ 1'

3C27003-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:31	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:31	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:31	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:31	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:28	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:28	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2908	03/29/23 09:30	03/30/23 10:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.1 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 10:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.2 %*	*70-130*		*P3C2908*	*03/29/23 09:30*	*03/30/23 10:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 09:30	03/30/23 10:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**265**	1.08	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 18:20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-14 @ 1'

3C27003-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:52	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:52	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:52	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:52	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 01:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 01:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 17:56	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 17:56	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 17:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.8 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 17:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 17:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 17:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**294**	1.06	mg/kg dry	1	P3C2904	03/29/23 08:00	03/29/23 18:35	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-15 @ 1'

3C27003-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 02:13	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 02:13	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 02:13	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 02:13	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 02:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 02:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 02:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.0 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 18:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.6 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 18:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 18:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**375**	1.09	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 20:07	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2801	03/28/23 10:42	03/28/23 10:44	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-16 @ 1'

3C27003-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:17	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:45	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:45	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 18:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.4 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 18:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.3 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 18:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 18:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**360**	1.06	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 20:53	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-17 @ 1'

3C27003-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:38	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:38	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:38	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:38	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:38*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:10	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:10	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.7 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 19:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**992**	1.09	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 21:08	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-18 @ 1'

3C27003-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:59	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:59	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:59	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:59	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 03:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 03:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:34	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:34	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.5 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.9 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 19:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**396**	1.06	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 21:24	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-19 @ 1'

3C27003-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 04:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 04:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:58	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:58	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 19:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.4 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 19:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 19:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**405**	1.09	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 21:39	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-20 @ 1'

3C27003-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:40	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:40	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:40	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:40	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 04:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 04:40*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 04:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:23	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:23	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 20:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.5 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 20:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 20:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**267**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 21:54	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-21 @ 1'

3C27003-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:01	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:01	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:01	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:01	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:47	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:47	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 20:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 20:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.5 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 20:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 20:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**358**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 22:09	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-22 @ 1'

3C27003-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:23	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:23	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:23	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:23	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:11	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:11	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 21:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 21:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 21:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**255**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 22:25	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-23 @ 1'

3C27003-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:44	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:44	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:44	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:44	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 05:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:44*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 05:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:35	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:35	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 21:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.1 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 21:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.6 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 21:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 21:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**203**	1.06	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 22:40	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-24 @ 1'

3C27003-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:05	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:05	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:05	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:05	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 06:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 06:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 22:47	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 22:47	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 22:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.2 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 22:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.5 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 22:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 22:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**224**	1.05	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 22:55	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-25 @ 1'

3C27003-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:26	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:26	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:26	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:26	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C2903	03/29/23 09:17	03/30/23 06:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 06:26*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C2903*	*03/29/23 09:17*	*03/30/23 06:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:12	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:12	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 23:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 23:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 23:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**241**	1.06	mg/kg dry	1	P3C2905	03/29/23 14:25	03/29/23 23:41	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-26 @ 1'

3C27003-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 12:52	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 12:52	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 12:52	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 12:52	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 12:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 12:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 12:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:36	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:36	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/30/23 23:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.9 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 23:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.2 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/30/23 23:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 11:34	03/30/23 23:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**193**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 00:27	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-27 @ 1'

3C27003-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:12	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:12	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:12	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:12	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:12*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:00	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 00:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**47.4**	1.09	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 00:42	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-28 @ 1'

3C27003-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:33	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:33	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:33	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:33	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:24	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:24	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.7 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 00:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**51.0**	1.05	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 00:57	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-29 @ 1'

3C27003-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:53	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:53	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:53	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:53	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 13:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 13:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:48	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:48	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 00:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 00:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 00:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**168**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 01:13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-30 @ 1'

3C27003-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:14	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:14	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:14	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:14	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.1 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:13	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:13	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 01:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 01:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 01:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**346**	1.09	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 01:28	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-31@ 1'

3C27003-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:35	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:35	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:35	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:35	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:35*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:37	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:37	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 01:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 01:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.7 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 01:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 01:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**313**	1.05	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 01:43	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-32 @ 1'

3C27003-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:55	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:55	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:55	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:55	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 14:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 14:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:01	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:01	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.0 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 02:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 02:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 02:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**255**	1.04	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 01:59	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-33 @ 1'

3C27003-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:16	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 15:16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 15:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:26	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:26	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2910	03/29/23 11:34	03/31/23 02:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.7 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 02:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3C2910*	*03/29/23 11:34*	*03/31/23 02:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 11:34	03/31/23 02:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**167**	1.06	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 02:14	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-34 @ 1'

3C27003-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:36	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:36	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:36	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:36	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 15:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 15:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.7 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 15:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:09	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:09	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.7 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 06:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**181**	1.08	mg/kg dry	1	P3C2905	03/29/23 14:25	03/30/23 02:29	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-35 @ 3'

3C27003-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:38	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:38	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:38	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:38	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.9 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 16:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.4 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 16:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:34	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:34	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.2 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.8 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 06:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**263**	1.09	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 13:19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-36 @ 3'

3C27003-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:59	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:59	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:59	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:59	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 16:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 16:59*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 16:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:59	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:59	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 06:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.5 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.8 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 06:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 06:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.2**	1.03	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 14:05	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-37 @ 3'

3C27003-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:00	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:00	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:00	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:00	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 02:00*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 02:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:24	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:24	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.0 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 07:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 07:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 07:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**177**	1.06	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 14:20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-38 @ 3'

3C27003-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:21	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:21	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:21	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:21	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 02:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 02:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 02:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:49	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:49	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 07:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.2 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 07:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 07:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 07:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.7**	1.08	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 14:36	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-39 @ 3'

3C27003-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:00	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:00	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:00	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:00	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:14	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:14	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.6 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 08:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.0 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 08:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 08:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**116**	1.05	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 14:51	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-40 @ 3'

3C27003-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.6 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:39	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:39	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 08:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.5 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 08:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.2 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 08:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 08:39	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.9**	1.06	mg/kg dry	1	P3C2914	03/29/23 14:27	03/30/23 15:06	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C2902 - * DEFAULT PREP *** **										
Blank (P3C2902-BLK1)				Prepared & Analyzed: 03/29/23						
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	*0.110*		"	*0.120*		*91.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0984*		"	*0.120*		*82.0*	*80-120*			
LCS (P3C2902-BS1)				Prepared & Analyzed: 03/29/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.1	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*80-120*			
LCS Dup (P3C2902-BSD1)				Prepared & Analyzed: 03/29/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120	3.22	20	
Toluene	0.102	0.00100	"	0.100		102	80-120	2.43	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	5.96	20	
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120	5.34	20	
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120	3.47	20	
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.9*	*80-120*			
Calibration Blank (P3C2902-CCB1)				Prepared & Analyzed: 03/29/23						
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*		*85.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.6*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C2902 - * DEFAULT PREP *** **										
Calibration Blank (P3C2902-CCB2)				Prepared & Analyzed: 03/29/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*85.3*	*80-120*			
Calibration Check (P3C2902-CCV1)				Prepared & Analyzed: 03/29/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0983	0.00100	"	0.100		98.3	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.4	80-120			
Xylene (o)	0.0993	0.00100	"	0.100		99.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			
Calibration Check (P3C2902-CCV2)				Prepared & Analyzed: 03/29/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.7	80-120			
Xylene (o)	0.0944	0.00100	"	0.100		94.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.2*	*75-125*			
Calibration Check (P3C2902-CCV3)				Prepared & Analyzed: 03/29/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0942	0.00100	"	0.100		94.2	80-120			
Ethylbenzene	0.0869	0.00100	"	0.100		86.9	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0905	0.00100	"	0.100		90.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*85.4*	*75-125*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C2902 - * DEFAULT PREP *** **										
Matrix Spike (P3C2902-MS1)	**Source: 3C24008-41**			Prepared & Analyzed: 03/29/23						
Benzene	0.0670	0.00104	mg/kg dry	0.104	ND	64.3	80-120			QM-05
Toluene	0.0601	0.00104	"	0.104	ND	57.7	80-120			QM-05
Ethylbenzene	0.0581	0.00104	"	0.104	ND	55.8	80-120			QM-05
Xylene (p/m)	0.103	0.00208	"	0.208	ND	49.6	80-120			QM-05
Xylene (o)	0.0570	0.00104	"	0.104	ND	54.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.125*		*94.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.125*		*84.3*	*80-120*			
Matrix Spike Dup (P3C2902-MSD1)	**Source: 3C24008-41**			Prepared & Analyzed: 03/29/23						
Benzene	0.0756	0.00104	mg/kg dry	0.104	ND	72.6	80-120	12.1	20	QM-05
Toluene	0.0696	0.00104	"	0.104	ND	66.9	80-120	14.7	20	QM-05
Ethylbenzene	0.0678	0.00104	"	0.104	ND	65.1	80-120	15.4	20	QM-05
Xylene (p/m)	0.120	0.00208	"	0.208	ND	57.6	80-120	15.1	20	QM-05
Xylene (o)	0.0666	0.00104	"	0.104	ND	64.0	80-120	15.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.125*		*87.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.125*		*95.7*	*80-120*			
Batch P3C2903 - * DEFAULT PREP *** **										
LCS (P3C2903-BS1)				Prepared & Analyzed: 03/29/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0943	0.00100	"	0.100		94.3	80-120			
Ethylbenzene	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.6	80-120			
Xylene (o)	0.0893	0.00100	"	0.100		89.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.4*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C2903 - * DEFAULT PREP *** **										
LCS Dup (P3C2903-BSD1)				Prepared & Analyzed: 03/29/23						
Benzene	0.0971	0.00100	mg/kg	0.100		97.1	80-120	9.12	20	
Toluene	0.0868	0.00100	"	0.100		86.8	80-120	8.35	20	
Ethylbenzene	0.0858	0.00100	"	0.100		85.8	80-120	8.56	20	
Xylene (p/m)	0.160	0.00200	"	0.200		80.1	80-120	3.10	20	
Xylene (o)	0.0817	0.00100	"	0.100		81.7	80-120	8.87	20	
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.9*	*80-120*			
Calibration Blank (P3C2903-CCB1)				Prepared & Analyzed: 03/29/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0956*		"	*0.120*		*79.7*	*80-120*			*S-GC*
Calibration Blank (P3C2903-CCB2)				Prepared: 03/29/23 Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			
Calibration Check (P3C2903-CCV1)				Prepared & Analyzed: 03/29/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0942	0.00100	"	0.100		94.2	80-120			
Ethylbenzene	0.0869	0.00100	"	0.100		86.9	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0905	0.00100	"	0.100		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*85.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C2903 - * DEFAULT PREP *** **										
Calibration Check (P3C2903-CCV2)				Prepared: 03/29/23 Analyzed: 03/30/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0896	0.00100	"	0.100		89.6	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		82.2	80-120			
Xylene (o)	0.0889	0.00100	"	0.100		88.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.8*	*75-125*			
Calibration Check (P3C2903-CCV3)				Prepared: 03/29/23 Analyzed: 03/30/23						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.0972	0.00100	"	0.100		97.2	80-120			
Ethylbenzene	0.0913	0.00100	"	0.100		91.3	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		83.9	80-120			
Xylene (o)	0.0925	0.00100	"	0.100		92.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.0*	*75-125*			
Matrix Spike (P3C2903-MS1)		**Source: 3C27003-06**		Prepared: 03/29/23 Analyzed: 03/30/23						
Benzene	0.0649	0.00104	mg/kg dry	0.104	ND	62.3	80-120			QM-05
Toluene	0.0635	0.00104	"	0.104	ND	61.0	80-120			QM-05
Ethylbenzene	0.0619	0.00104	"	0.104	ND	59.5	80-120			QM-05
Xylene (p/m)	0.106	0.00208	"	0.208	ND	50.8	80-120			QM-05
Xylene (o)	0.0543	0.00104	"	0.104	ND	52.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.125*		*97.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.125*		*107*	*80-120*			
Matrix Spike Dup (P3C2903-MSD1)		**Source: 3C27003-06**		Prepared: 03/29/23 Analyzed: 03/30/23						
Benzene	0.0684	0.00104	mg/kg dry	0.104	ND	65.7	80-120	5.28	20	QM-05
Toluene	0.0674	0.00104	"	0.104	ND	64.7	80-120	5.87	20	QM-05
Ethylbenzene	0.0669	0.00104	"	0.104	ND	64.2	80-120	7.74	20	QM-05
Xylene (p/m)	0.115	0.00208	"	0.208	ND	55.2	80-120	8.32	20	QM-05
Xylene (o)	0.0587	0.00104	"	0.104	ND	56.4	80-120	7.83	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.125*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.125*		*97.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Blank (P3C3002-BLK1)				Prepared & Analyzed: 03/30/23						
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*		*83.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.6*	*80-120*			
LCS (P3C3002-BS1)				Prepared & Analyzed: 03/30/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.0983	0.00100	"	0.100		98.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.5*	*80-120*			
LCS Dup (P3C3002-BSD1)				Prepared & Analyzed: 03/30/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120	2.81	20	
Toluene	0.101	0.00100	"	0.100		101	80-120	2.78	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	1.71	20	
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120	1.68	20	
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120	1.89	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
Calibration Blank (P3C3002-CCB1)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*86.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Calibration Blank (P3C3002-CCB2)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.5*	*80-120*			
Calibration Blank (P3C3002-CCB3)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*83.9*	*80-120*			
Calibration Check (P3C3002-CCV1)				Prepared & Analyzed: 03/30/23						
Benzene	0.0984	0.00100	mg/kg	0.100		98.4	80-120			
Toluene	0.0898	0.00100	"	0.100		89.8	80-120			
Ethylbenzene	0.0867	0.00100	"	0.100		86.7	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.7	80-120			
Xylene (o)	0.0862	0.00100	"	0.100		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*75-125*			
Calibration Check (P3C3002-CCV2)				Prepared & Analyzed: 03/30/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0917	0.00100	"	0.100		91.7	80-120			
Ethylbenzene	0.0837	0.00100	"	0.100		83.7	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	80-120			
Xylene (o)	0.0886	0.00100	"	0.100		88.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*84.6*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Calibration Check (P3C3002-CCV3)				Prepared & Analyzed: 03/30/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.0906	0.00100	"	0.100		90.6	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.4	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*93.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.4*	*75-125*			
Matrix Spike (P3C3002-MS1)		**Source: 3C27003-26**		Prepared & Analyzed: 03/30/23						
Benzene	0.0691	0.00108	mg/kg dry	0.108	ND	64.2	80-120			QM-05
Toluene	0.0559	0.00108	"	0.108	ND	52.0	80-120			QM-05
Ethylbenzene	0.0501	0.00108	"	0.108	ND	46.6	80-120			QM-05
Xylene (p/m)	0.0890	0.00215	"	0.215	ND	41.4	80-120			QM-05
Xylene (o)	0.0472	0.00108	"	0.108	ND	43.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.129*		*95.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.129*		*96.6*	*80-120*			
Matrix Spike Dup (P3C3002-MSD1)		**Source: 3C27003-26**		Prepared & Analyzed: 03/30/23						
Benzene	0.0858	0.00108	mg/kg dry	0.108	ND	79.8	80-120	21.6	20	QM-05
Toluene	0.0712	0.00108	"	0.108	ND	66.2	80-120	24.1	20	QM-05
Ethylbenzene	0.0648	0.00108	"	0.108	ND	60.2	80-120	25.6	20	QM-05
Xylene (p/m)	0.115	0.00215	"	0.215	ND	53.3	80-120	25.1	20	QM-05
Xylene (o)	0.0609	0.00108	"	0.108	ND	56.6	80-120	25.4	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.129*		*95.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.129*		*96.6*	*80-120*			
Batch P3C3117 - * DEFAULT PREP *** **										
Blank (P3C3117-BLK1)				Prepared: 03/31/23 Analyzed: 04/02/23						
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	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
LCS (P3C3117-BS1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0967	0.00100	"	0.100		96.7	80-120			
Ethylbenzene	0.0988	0.00100	"	0.100		98.8	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		84.9	80-120			
Xylene (o)	0.0915	0.00100	"	0.100		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			
LCS Dup (P3C3117-BSD1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0969	0.00100	mg/kg	0.100		96.9	80-120	6.21	20	
Toluene	0.0897	0.00100	"	0.100		89.7	80-120	7.50	20	
Ethylbenzene	0.0915	0.00100	"	0.100		91.5	80-120	7.70	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120	5.14	20	
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120	7.88	20	
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*112*	*80-120*			
Calibration Blank (P3C3117-CCB1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.7*	*80-120*			
Calibration Blank (P3C3117-CCB2)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.0*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
Calibration Check (P3C3117-CCV1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		85.2	80-120			
Xylene (o)	0.0953	0.00100	"	0.100		95.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*111*	*75-125*			
Calibration Check (P3C3117-CCV2)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0939	0.00100	mg/kg	0.100		93.9	80-120			
Toluene	0.0851	0.00100	"	0.100		85.1	80-120			
Ethylbenzene	0.0804	0.00100	"	0.100		80.4	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.1	80-120			
Xylene (o)	0.0802	0.00100	"	0.100		80.2	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			
Calibration Check (P3C3117-CCV3)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120			
Toluene	0.0969	0.00100	"	0.100		96.9	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.2	80-120			
Xylene (o)	0.0911	0.00100	"	0.100		91.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Matrix Spike (P3C3117-MS1)	**Source: 3C30002-01**			Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0739	0.00108	mg/kg dry	0.108	ND	68.7	80-120			QM-05
Toluene	0.0599	0.00108	"	0.108	ND	55.7	80-120			QM-05
Ethylbenzene	0.0633	0.00108	"	0.108	ND	58.8	80-120			QM-05
Xylene (p/m)	0.110	0.00215	"	0.215	ND	51.1	80-120			QM-05
Xylene (o)	0.0578	0.00108	"	0.108	ND	53.8	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.129*		*95.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.148*		"	*0.129*		*115*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3C3117-MSD1)	**Source: 3C30002-01**			Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0753	0.00108	mg/kg dry	0.108	ND	70.0	80-120	1.82	20	QM-05
Toluene	0.0604	0.00108	"	0.108	ND	56.2	80-120	0.804	20	QM-05
Ethylbenzene	0.0637	0.00108	"	0.108	ND	59.2	80-120	0.661	20	QM-05
Xylene (p/m)	0.110	0.00215	"	0.215	ND	51.3	80-120	0.273	20	QM-05
Xylene (o)	0.0575	0.00108	"	0.108	ND	53.4	80-120	0.653	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.145*		*"*	*0.129*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.129*		*96.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2908 - TX 1005										
Blank (P3C2908-BLK1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.5*		*"*	*100*		*92.5*	*70-130*			
Surrogate: o-Terphenyl	*51.4*		*"*	*50.0*		*103*	*70-130*			
LCS (P3C2908-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	791	25.0	mg/kg	1000		79.1	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	*117*		*"*	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*58.9*		*"*	*50.0*		*118*	*70-130*			
LCS Dup (P3C2908-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	782	25.0	mg/kg	1000		78.2	75-125	1.13	20	
>C12-C28	1020	25.0	"	1000		102	75-125	0.682	20	
Surrogate: 1-Chlorooctane	*117*		*"*	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*56.7*		*"*	*50.0*		*113*	*70-130*			
Calibration Blank (P3C2908-CCB1)				Prepared & Analyzed: 03/29/23						
C6-C12	5.97		mg/kg							
>C12-C28	8.85		"							
Surrogate: 1-Chlorooctane	*90.4*		*"*	*100*		*90.4*	*70-130*			
Surrogate: o-Terphenyl	*49.7*		*"*	*50.0*		*99.4*	*70-130*			
Calibration Blank (P3C2908-CCB2)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	6.31		mg/kg							
>C12-C28	10.5		"							
Surrogate: 1-Chlorooctane	*91.4*		*"*	*100*		*91.4*	*70-130*			
Surrogate: o-Terphenyl	*50.9*		*"*	*50.0*		*102*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2908 - TX 1005										
Calibration Check (P3C2908-CCV1)				Prepared & Analyzed: 03/29/23						
C6-C12	488	25.0	mg/kg	500		97.7	85-115			
>C12-C28	514	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*56.8*		*"*	*50.0*		*114*	*70-130*			
Calibration Check (P3C2908-CCV2)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	486	25.0	mg/kg	500		97.2	85-115			
>C12-C28	513	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*55.6*		*"*	*50.0*		*111*	*70-130*			
Calibration Check (P3C2908-CCV3)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	494	25.0	mg/kg	500		98.8	85-115			
>C12-C28	537	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*58.2*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3C2908-MS1)		**Source: 3C27003-13**		Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	658	26.9	mg/kg dry	1080	ND	61.2	75-125			QM-05
>C12-C28	897	26.9	"	1080	ND	83.5	75-125			
Surrogate: 1-Chlorooctane	*102*		*"*	*108*		*95.2*	*70-130*			
Surrogate: o-Terphenyl	*51.5*		*"*	*53.8*		*95.9*	*70-130*			
Matrix Spike Dup (P3C2908-MSD1)		**Source: 3C27003-13**		Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	693	26.9	mg/kg dry	1080	ND	64.4	75-125	5.17	20	QM-05
>C12-C28	936	26.9	"	1080	ND	87.0	75-125	4.17	20	
Surrogate: 1-Chlorooctane	*105*		*"*	*108*		*97.3*	*70-130*			
Surrogate: o-Terphenyl	*51.5*		*"*	*53.8*		*95.8*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2910 - TX 1005										
Blank (P3C2910-BLK1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*94.2*		*"*	*100*		*94.2*	*70-130*			
Surrogate: o-Terphenyl	*53.1*		*"*	*50.0*		*106*	*70-130*			
LCS (P3C2910-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	778	25.0	mg/kg	1000		77.8	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*61.0*		*"*	*50.0*		*122*	*70-130*			
LCS Dup (P3C2910-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	769	25.0	mg/kg	1000		76.9	75-125	1.20	20	
>C12-C28	1030	25.0	"	1000		103	75-125	1.21	20	
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*59.5*		*"*	*50.0*		*119*	*70-130*			
Calibration Check (P3C2910-CCV1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	476	25.0	mg/kg	500		95.2	85-115			
>C12-C28	498	25.0	"	500		99.7	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*56.8*		*"*	*50.0*		*114*	*70-130*			
Calibration Check (P3C2910-CCV2)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	472	25.0	mg/kg	500		94.5	85-115			
>C12-C28	502	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*54.2*		*"*	*50.0*		*108*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2910 - TX 1005										
Matrix Spike (P3C2910-MS1)	**Source: 3C27003-33**			Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	711	26.6	mg/kg dry	1060	ND	66.8	75-125			R3
>C12-C28	941	26.6	"	1060	ND	88.4	75-125			
Surrogate: 1-Chlorooctane	*105*		*"*	*106*		*98.8*	*70-130*			
Surrogate: o-Terphenyl	*43.7*		*"*	*53.2*		*82.2*	*70-130*			
Matrix Spike Dup (P3C2910-MSD1)	**Source: 3C27003-33**			Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	708	26.6	mg/kg dry	1060	ND	66.6	75-125	0.396	20	R3
>C12-C28	919	26.6	"	1060	ND	86.4	75-125	2.36	20	
Surrogate: 1-Chlorooctane	*105*		*"*	*106*		*98.4*	*70-130*			
Surrogate: o-Terphenyl	*49.5*		*"*	*53.2*		*93.1*	*70-130*			
Batch P3C2911 - TX 1005										
Blank (P3C2911-BLK1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*97.1*		*"*	*100*		*97.1*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
LCS (P3C2911-BS1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	768	25.0	mg/kg	1000		76.8	75-125			
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*51.8*		*"*	*50.0*		*104*	*70-130*			
LCS Dup (P3C2911-BSD1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	775	25.0	mg/kg	1000		77.5	75-125	1.02	20	
>C12-C28	1030	25.0	"	1000		103	75-125	0.706	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*52.6*		*"*	*50.0*		*105*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2911 - TX 1005										
Calibration Check (P3C2911-CCV1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	471	25.0	mg/kg	500		94.2	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*55.3*		*"*	*50.0*		*111*	*70-130*			
Calibration Check (P3C2911-CCV2)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	454	25.0	mg/kg	500		90.7	85-115			
>C12-C28	490	25.0	"	500		98.0	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		*"*	*50.0*		*104*	*70-130*			
Matrix Spike (P3C2911-MS1)	**Source: 3C27004-13**			Prepared: 03/29/23 Analyzed: 04/01/23						
C6-C12	646	25.8	mg/kg dry	1030	ND	62.7	75-125			QM-05
>C12-C28	876	25.8	"	1030	13.5	83.7	75-125			
Surrogate: 1-Chlorooctane	*91.6*		*"*	*103*		*88.9*	*70-130*			
Surrogate: o-Terphenyl	*40.0*		*"*	*51.5*		*77.6*	*70-130*			
Matrix Spike Dup (P3C2911-MSD1)	**Source: 3C27004-13**			Prepared: 03/29/23 Analyzed: 04/01/23						
C6-C12	675	25.8	mg/kg dry	1030	ND	65.4	75-125	4.32	20	QM-05
>C12-C28	920	25.8	"	1030	13.5	87.9	75-125	4.94	20	
Surrogate: 1-Chlorooctane	*96.8*		*"*	*103*		*93.9*	*70-130*			
Surrogate: o-Terphenyl	*41.5*		*"*	*51.5*		*80.6*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2801 - * DEFAULT PREP *** **										
Blank (P3C2801-BLK1)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Duplicate (P3C2801-DUP1)		**Source: 3C27007-01**		Prepared & Analyzed: 03/28/23						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P3C2801-DUP2)		**Source: 3C27003-10**		Prepared & Analyzed: 03/28/23						
% Moisture	5.0	0.1	%		6.0			18.2	20	
Batch P3C2803 - * DEFAULT PREP *** **										
Blank (P3C2803-BLK1)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK2)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK3)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK4)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK5)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Duplicate (P3C2803-DUP1)		**Source: 3C24008-10**		Prepared & Analyzed: 03/28/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2803 - * DEFAULT PREP *** **										
Duplicate (P3C2803-DUP2)		**Source: 3C24008-20**		Prepared & Analyzed: 03/28/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3C2803-DUP3)		**Source: 3C24008-35**		Prepared & Analyzed: 03/28/23						
% Moisture	5.0	0.1	%		4.0			22.2	20	R3
Duplicate (P3C2803-DUP4)		**Source: 3C24008-45**		Prepared & Analyzed: 03/28/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3C2803-DUP5)		**Source: 3C27003-25**		Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3C2803-DUP6)		**Source: 3C27003-35**		Prepared & Analyzed: 03/28/23						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P3C2803-DUP7)		**Source: 3C27004-10**		Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P3C2803-DUP8)		**Source: 3C27004-20**		Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3C2803-DUP9)		**Source: 3C27013-02**		Prepared & Analyzed: 03/28/23						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P3C2803-DUPA)		**Source: 3C27014-10**		Prepared & Analyzed: 03/28/23						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Batch P3C2904 - * DEFAULT PREP *** **										
Blank (P3C2904-BLK1)				Prepared & Analyzed: 03/29/23						
Chloride	ND	1.00	mg/kg							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2904 - * DEFAULT PREP *** **										
LCS (P3C2904-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.7		mg/kg	20.0		108	90-110			
LCS Dup (P3C2904-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.4		mg/kg	20.0		107	90-110	1.13	10	
Calibration Check (P3C2904-CCV1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.4		mg/kg	20.0		107	90-110			
Calibration Check (P3C2904-CCV2)				Prepared & Analyzed: 03/29/23						
Chloride	21.5		mg/kg	20.0		107	90-110			
Matrix Spike (P3C2904-MS1)		**Source: 3C24003-05**		Prepared & Analyzed: 03/29/23						
Chloride	39.2		mg/kg	5.00	40.6	NR	80-120			QM-05
Matrix Spike (P3C2904-MS2)		**Source: 3C27003-05**		Prepared & Analyzed: 03/29/23						
Chloride	7.54		mg/kg	5.00	3.48	81.3	80-120			
Matrix Spike Dup (P3C2904-MSD1)		**Source: 3C24003-05**		Prepared & Analyzed: 03/29/23						
Chloride	45.9		mg/kg	5.00	40.6	106	80-120	15.8	20	
Matrix Spike Dup (P3C2904-MSD2)		**Source: 3C27003-05**		Prepared & Analyzed: 03/29/23						
Chloride	7.50		mg/kg	5.00	3.48	80.4	80-120	0.598	20	
Batch P3C2905 - * DEFAULT PREP *** **										
Blank (P3C2905-BLK1)				Prepared & Analyzed: 03/29/23						
Chloride	ND	1.00	mg/kg							

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2905 - * DEFAULT PREP *** **										
LCS (P3C2905-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.1		mg/kg	20.0		106	90-110			
LCS Dup (P3C2905-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.4		mg/kg	20.0		107	90-110	1.20	10	
Calibration Check (P3C2905-CCV1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	20.9		mg/kg	20.0		104	90-110			
Calibration Check (P3C2905-CCV2)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P3C2905-CCV3)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	20.9		mg/kg	20.0		104	90-110			
Duplicate (P3C2905-DUP1)		**Source: 3C27003-15**		Prepared & Analyzed: 03/29/23						
Chloride	372	1.09	mg/kg dry		375			0.730	20	
Duplicate (P3C2905-DUP2)		**Source: 3C27003-25**		Prepared & Analyzed: 03/29/23						
Chloride	252	1.06	mg/kg dry		241			4.76	20	
Batch P3C2914 - * DEFAULT PREP *** **										
Blank (P3C2914-BLK1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	ND	1.00	mg/kg							
LCS (P3C2914-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.1		mg/kg	20.0		106	90-110			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2914 - * DEFAULT PREP *** **										
LCS Dup (P3C2914-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.2		mg/kg	20.0		106	90-110	0.142	10	
Calibration Check (P3C2914-CCV1)				Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	21.7		mg/kg	20.0		109	90-110			
Calibration Check (P3C2914-CCV2)				Prepared: 03/29/23 Analyzed: 04/01/23						
Chloride	18.7		mg/kg	20.0		93.6	90-110			
Matrix Spike (P3C2914-MS1)		**Source: 3C27003-35**		Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	31.3		mg/kg	5.00	24.2	142	80-120			QM-05
Matrix Spike (P3C2914-MS2)		**Source: 3C24008-05**		Prepared: 03/29/23 Analyzed: 04/01/23						
Chloride	45.2		mg/kg	2.50	43.2	81.7	80-120			
Matrix Spike Dup (P3C2914-MSD1)		**Source: 3C27003-35**		Prepared: 03/29/23 Analyzed: 03/30/23						
Chloride	31.0		mg/kg	5.00	24.2	135	80-120	1.15	20	QM-05
Matrix Spike Dup (P3C2914-MSD2)		**Source: 3C24008-05**		Prepared: 03/29/23 Analyzed: 04/01/23						
Chloride	44.4		mg/kg	2.50	43.2	50.0	80-120	1.77	20	QM-05

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: Brent Barron Date: 4/6/2023

Brent Barron, Laboratory Director/Technical Director

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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

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CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/2023 PAGE 1 OF 2

PO#: LAB WORK ORDER#: 3C27003

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MTN / NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	FIELD NOTES
C-1 0-1'	1	3/22/23	9:00	S					X		X	X	X	X	X	
C-2 0-3'	2		9:05													
C-3 1'	3		9:55													
C-4 1'	4		10:00													
C-5 1'	5		10:05													
C-6 1'	6		10:10													
C-7 1'	7		10:15													
C-8 1'	8		10:20													
C-9 1'	9		10:45													
C-10 1'	10		10:50													
C-11 1'	11		10:55													
C-12 1'	12		11:00													
C-13 1'	13		11:05													
C-14 1'	14		11:10													
C-15'	15	↓	11:15	↓					↓	↓	↓	↓	↓		↓	
TOTAL																

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY:(Signature)
	3/27/23 1007	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -3.4 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
Released to Imaging: 9/30/2024 4:19:02 PM

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No. 29[illegible]2

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/2023 PAGE 2 OF 3

PO#: LAB WORK ORDER#: 3C27003

PROJECT LOCATION OR NAME: PINEY FEDER

LAI PROJECT #: 22-0107.02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-16 1'	16	3/22/23	11:40	S					X		X		X	X	X												X		
C-17 1'	17		11:45																										
C-18 1'	18		11:50																										
C-19 1'	19		11:55																										
C-20 1'	20		12:00																										
C-21 1'	21		12:05																										
C-22 1'	22		12:10																										
C-23 1'	23		12:45																										
C-24 1'	24		12:55																										
C-25 1'	25		1:05																										
C-26 1'	26		1:10																										
C-27 1'	27		1:20																										
C-28 1'	28		11:25																										
C-29 1'	29		1:30																										
C-30 1'	30	↓	1:40	↓					↓		↓		↓	↓	↓												↓		
TOTAL																													

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	3/27/23 1007	Tirzo Bleda
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Page 517 of 1437

No. 29[illegible]3

CHAIN-OF-CUSTODY

Page 69 of 69

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2/27/2023 PAGE 3 OF 4

PO#: LAB WORK ORDER#: 3C27003

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MMT / NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☒	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-31 1'	31	3/22/23	1:50	S	1				X		X				X	X	X																								X				
C-32 1'	32	3/22/23	2:00		1																																								
C-33 1'	33		2:10		1																																								
C-34 1'	34		2:15		1																																								
C-35 ~~3'~~ 1'	35		2:40		1																																							
C-36 3'	36		2:30		1																																							
C-37 3'	37		2:55		1																																							
C-38 3'	38		~~3:00~~ 3:00		1																																								
C-39 3'	39		3:10		1																																								
C-40 3'	40		3:20		1																																								
TOTAL																																												

RELINQUISHED BY:(Signature) DATE/TIME 3/27/23 1007 RECEIVED BY:(Signature) Tina Blaine

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

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

LABORATORY: DBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -3.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3C27004

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/06/23

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

Project: Piney Elder
Project Number: 22-0107-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-41 @ 1'	3C27004-01	Soil	03/23/23 09:25	03-27-2023 10:07
C-42 @ 1'	3C27004-02	Soil	03/23/23 09:30	03-27-2023 10:07
C-43 @ 1'	3C27004-03	Soil	03/23/23 09:35	03-27-2023 10:07
C-44 @ 1'	3C27004-04	Soil	03/23/23 09:45	03-27-2023 10:07
C-45 @ 1'	3C27004-05	Soil	03/23/23 09:50	03-27-2023 10:07
C-46 @ 1'	3C27004-06	Soil	03/23/23 10:00	03-27-2023 10:07
C-47 @ 1'	3C27004-07	Soil	03/23/23 10:05	03-27-2023 10:07
C-48 @ 1'	3C27004-08	Soil	03/23/23 10:10	03-27-2023 10:07
C-49 @ 1'	3C27004-09	Soil	03/23/23 10:15	03-27-2023 10:07
C-50 @ 1'	3C27004-10	Soil	03/23/23 10:40	03-27-2023 10:07
C-51 @ 1'	3C27004-11	Soil	03/23/23 10:45	03-27-2023 10:07
C-52 @ 1'	3C27004-12	Soil	03/23/23 10:50	03-27-2023 10:07
C-53 @ 1'	3C27004-13	Soil	03/23/23 11:00	03-27-2023 10:07
C-54 @ 1'	3C27004-14	Soil	03/23/23 11:05	03-27-2023 10:07
C-55 @ 1'	3C27004-15	Soil	03/23/23 11:10	03-27-2023 10:07
C-56 @ 1'	3C27004-16	Soil	03/23/23 11:15	03-27-2023 10:07
C-57 @ 1'	3C27004-17	Soil	03/23/23 11:20	03-27-2023 10:07
C-58 @ 1'	3C27004-18	Soil	03/23/23 11:25	03-27-2023 10:07
C-59 @ 1'	3C27004-19	Soil	03/23/23 11:40	03-27-2023 10:07
C-60 @ 1'	3C27004-20	Soil	03/23/23 11:50	03-27-2023 10:07
C-61 @ 1'	3C27004-21	Soil	03/23/23 12:00	03-27-2023 10:07
C-62 @ 1'	3C27004-22	Soil	03/23/23 12:10	03-27-2023 10:07
C-63 @ 1'	3C27004-23	Soil	03/23/23 12:20	03-27-2023 10:07
C-64 @ 1'	3C27004-24	Soil	03/23/23 12:25	03-27-2023 10:07
C-65 @ 1'	3C27004-25	Soil	03/23/23 12:35	03-27-2023 10:07
C-66 @ 1'	3C27004-26	Soil	03/23/23 12:45	03-27-2023 10:07
C-67 @ 1'	3C27004-27	Soil	03/23/23 12:55	03-27-2023 10:07
C-68 @ 1'	3C27004-28	Soil	03/23/23 13:10	03-27-2023 10:07
C-69 @ 1'	3C27004-29	Soil	03/23/23 13:20	03-27-2023 10:07
C-70 @ 1'	3C27004-30	Soil	03/23/23 13:30	03-27-2023 10:07
C-71 @ 1'	3C27004-31	Soil	03/23/23 13:35	03-27-2023 10:07
C-72 @ 1'	3C27004-32	Soil	03/23/23 13:45	03-27-2023 10:07
C-73 @ 1'	3C27004-33	Soil	03/23/23 14:50	03-27-2023 10:07
C-74 @ 1'	3C27004-34	Soil	03/23/23 15:00	03-27-2023 10:07

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-75 @ 3'	3C27004-35	Soil	03/23/23 15:10	03-27-2023 10:07
C-76 @ 3'	3C27004-36	Soil	03/23/23 15:20	03-27-2023 10:07
C-77 @ 3'	3C27004-37	Soil	03/23/23 15:30	03-27-2023 10:07

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-41 @ 1'

3C27004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:41	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:41	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:41	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:41	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 18:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 18:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:31	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:31	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.4 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 21:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.7 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 21:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 21:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**35.1**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 15:02	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-42 @ 1'

3C27004-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:01	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:01	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:01	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:01	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:01*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.4 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:58	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:58	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 21:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.4 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 21:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 21:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 21:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**149**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 15:16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-43 @ 1'

3C27004-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:22	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:22	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:22	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:22*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 22:25	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 22:25	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 22:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.3 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 22:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.5 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 22:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 22:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**98.0**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 15:30	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-44 @ 1'

3C27004-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:42	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:42	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:42	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:42	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3C3002	03/30/23 09:32	03/30/23 19:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.3 %*	*80-120*		*P3C3002*	*03/30/23 09:32*	*03/30/23 19:42*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 23:47	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 23:47	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3C2911	03/29/23 10:45	03/31/23 23:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.2 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 23:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.6 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*03/31/23 23:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/29/23 10:45	03/31/23 23:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**53.9**	1.10	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 15:45	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-45 @ 1'

3C27004-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:24	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:24	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:24	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:24	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 22:24*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 22:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 00:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.3 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 00:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 00:15	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**291**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 15:59	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-46 @ 1'

3C27004-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:45	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:45	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:45	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:45	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 22:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 22:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 22:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:43	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:43	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 00:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.6 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 00:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.1 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 00:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 00:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**543**	1.03	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 16:13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-47 @ 1'

3C27004-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:05	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:05	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:05	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:05	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:11	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:11	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.8 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 01:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.6 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 01:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 01:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.6**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 16:28	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-48 @ 1'

3C27004-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:26	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:26	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:26	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:26	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:26*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:40	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:40	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 01:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.4 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 01:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.9 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 01:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 01:40	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**178**	1.03	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 16:42	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-49 @ 1'

3C27004-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:46	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:46	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:46	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:46	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/30/23 23:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/30/23 23:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:08	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:08	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.4 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 02:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.1 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 02:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 02:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**472**	1.04	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 16:56	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-50 @ 1'

3C27004-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:07	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:07	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:07	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:07	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:07*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:37	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:37	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 02:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 02:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.2 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 02:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 02:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**554**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/02/23 17:39	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-51 @ 1'

3C27004-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:28	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:28	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:28	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:28	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:28*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:03	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:03	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.7 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 03:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1070**	1.04	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 08:34	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-52 @ 1'

3C27004-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:49	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:49	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:49	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:49	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 00:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 00:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:31	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:31	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.5 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 03:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**286**	1.04	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 08:48	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-53 @ 1'

3C27004-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:09	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:09	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:09	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:09	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 01:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 01:09*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:59	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:59	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2911	03/29/23 10:45	04/01/23 03:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.5 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P3C2911*	*03/29/23 10:45*	*04/01/23 03:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 10:45	04/01/23 03:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**434**	1.03	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 09:02	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-54 @ 1'

3C27004-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:30	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:30	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:30	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:30	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 01:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 01:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 01:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:36	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:36	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 17:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*120 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 17:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 17:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1050**	1.04	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 09:17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-55 @ 1'

3C27004-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:33	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:33	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:33	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:33	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 02:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 02:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:57	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:57	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 17:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 17:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 17:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 17:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**821**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 09:31	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-56 @ 1'

3C27004-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:53	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:53	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:53	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:53	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 02:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 02:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.1 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 02:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 18:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 18:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 18:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1560**	1.03	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 09:45	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-57 @ 1'

3C27004-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:14	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:14	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:14	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:14	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:41	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:41	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 18:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 18:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 18:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 18:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**437**	1.04	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 10:00	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-58 @ 1'

3C27004-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:34	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:34	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:34	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:34	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:34*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:03	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:03	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 19:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**529**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 10:14	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-59 @ 1'

3C27004-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:55	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:55	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:55	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:55	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 03:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 03:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:25	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:25	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 19:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**401**	1.05	mg/kg dry	1	P3C3007	03/30/23 13:46	04/03/23 10:29	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-60 @ 1'

3C27004-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:16	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:47	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:47	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 19:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 19:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 19:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**557**	1.06	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 11:55	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-61 @ 1'

3C27004-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:36	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:36	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:36	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:36	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.9 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:09	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:09	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 20:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**215**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 13:06	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-62 @ 1'

3C27004-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:57	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:57	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:57	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:57	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 04:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 04:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:31	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:31	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 20:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**112**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 13:21	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-63 @ 1'

3C27004-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:17	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 05:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 05:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:53	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:53	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 20:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 20:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 20:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**529**	1.04	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 14:22	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-64 @ 1'

3C27004-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:38	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:38	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:38	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:38	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3003	03/30/23 09:35	03/31/23 05:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.9 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 05:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*80-120*		*P3C3003*	*03/30/23 09:35*	*03/31/23 05:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 21:58	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 21:58	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 21:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.3 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 21:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 21:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 21:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.4**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 14:36	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-65 @ 1'

3C27004-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:23	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:23	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:23	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:23	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 12:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 12:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 22:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 22:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 22:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**272**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 15:20	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-66 @ 1'

3C27004-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:44	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:44	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:44	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:44	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 12:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 12:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 12:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:41	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:41	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 22:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 22:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 22:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 22:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**619**	1.12	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 15:34	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-67 @ 1'

3C27004-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:04	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:04	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:04	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:04	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:03	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:03	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 23:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**290**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 15:48	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2803	03/28/23 11:57	03/28/23 12:04	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-68 @ 1'

3C27004-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:25	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:25	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:25	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:25	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:25	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:25	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.8 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*124 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 23:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.4**	1.06	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 16:02	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-69 @ 1'

3C27004-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:46	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:46	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:46	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:46	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 13:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 13:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:46	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:46	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/30/23 23:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.3 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/30/23 23:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 13:45	03/30/23 23:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**156**	1.06	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 16:17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-70 @ 1'

3C27004-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:06	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:06	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:06	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:06	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:08	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:08	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 13:45	03/31/23 00:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**724**	1.06	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 16:59	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-71 @ 1'

3C27004-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:27	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:27	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:27	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:27	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.1 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:27*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:30	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:30	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/31/23 00:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**323**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 17:42	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-72 @ 1'

3C27004-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:47	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:47	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:47	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:47	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 14:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 14:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:52	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:52	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 00:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.9 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*124 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 00:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/29/23 13:45	03/31/23 00:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**69.0**	1.05	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 17:57	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-73 @ 1'

3C27004-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:08	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:08	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:08	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:08	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.9 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 15:08*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 15:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 01:14	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 01:14	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3C2913	03/29/23 13:45	03/31/23 01:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.5 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 01:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P3C2913*	*03/29/23 13:45*	*03/31/23 01:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/29/23 13:45	03/31/23 01:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**232**	1.10	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 18:11	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-74 @ 1'

3C27004-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:28	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:28	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:28	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:28	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 15:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 15:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 15:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:33	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:33	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.5 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 04:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 04:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 04:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**656**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 18:25	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-75 @ 3'

3C27004-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:30	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:30	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:30	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:30	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.9 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 16:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*89.1 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 16:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:55	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:55	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 04:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 04:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 04:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 04:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**97.9**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 18:39	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-76 @ 3'

3C27004-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:51	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:51	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:51	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:51	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 16:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 16:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 16:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:17	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:17	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 05:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*135 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 05:17*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 05:17	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**81.2**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 18:54	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-77 @ 3'

3C27004-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:11	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:11	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:11	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:11	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:38	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:38	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 05:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 05:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 05:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 05:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**81.2**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 19:08	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C3005	03/30/23 12:12	03/30/23 12:46	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Blank (P3C3002-BLK1)				Prepared & Analyzed: 03/30/23						
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*		*83.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.6*	*80-120*			
LCS (P3C3002-BS1)				Prepared & Analyzed: 03/30/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.0983	0.00100	"	0.100		98.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*80-120*			
LCS Dup (P3C3002-BSD1)				Prepared & Analyzed: 03/30/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120	2.81	20	
Toluene	0.101	0.00100	"	0.100		101	80-120	2.78	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	1.71	20	
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120	1.68	20	
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120	1.89	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*80-120*			
Calibration Blank (P3C3002-CCB1)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*86.2*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Calibration Blank (P3C3002-CCB2)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.5*	*80-120*			
Calibration Blank (P3C3002-CCB3)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*83.9*	*80-120*			
Calibration Check (P3C3002-CCV1)				Prepared & Analyzed: 03/30/23						
Benzene	0.0984	0.00100	mg/kg	0.100		98.4	80-120			
Toluene	0.0898	0.00100	"	0.100		89.8	80-120			
Ethylbenzene	0.0867	0.00100	"	0.100		86.7	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.7	80-120			
Xylene (o)	0.0862	0.00100	"	0.100		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*75-125*			
Calibration Check (P3C3002-CCV2)				Prepared & Analyzed: 03/30/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0917	0.00100	"	0.100		91.7	80-120			
Ethylbenzene	0.0837	0.00100	"	0.100		83.7	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	80-120			
Xylene (o)	0.0886	0.00100	"	0.100		88.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*84.6*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3002 - * DEFAULT PREP *** **										
Calibration Check (P3C3002-CCV3)				Prepared & Analyzed: 03/30/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.0906	0.00100	"	0.100		90.6	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.4	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*93.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.4*	*75-125*			
Matrix Spike (P3C3002-MS1)		**Source: 3C27003-26**		Prepared & Analyzed: 03/30/23						
Benzene	0.0691	0.00108	mg/kg dry	0.108	ND	64.2	80-120			QM-05
Toluene	0.0559	0.00108	"	0.108	ND	52.0	80-120			QM-05
Ethylbenzene	0.0501	0.00108	"	0.108	ND	46.6	80-120			QM-05
Xylene (p/m)	0.0890	0.00215	"	0.215	ND	41.4	80-120			QM-05
Xylene (o)	0.0472	0.00108	"	0.108	ND	43.8	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.129*		*96.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.129*		*95.7*	*80-120*			
Matrix Spike Dup (P3C3002-MSD1)		**Source: 3C27003-26**		Prepared & Analyzed: 03/30/23						
Benzene	0.0858	0.00108	mg/kg dry	0.108	ND	79.8	80-120	21.6	20	QM-05
Toluene	0.0712	0.00108	"	0.108	ND	66.2	80-120	24.1	20	QM-05
Ethylbenzene	0.0648	0.00108	"	0.108	ND	60.2	80-120	25.6	20	QM-05
Xylene (p/m)	0.115	0.00215	"	0.215	ND	53.3	80-120	25.1	20	QM-05
Xylene (o)	0.0609	0.00108	"	0.108	ND	56.6	80-120	25.4	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.129*		*96.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.129*		*95.5*	*80-120*			
Batch P3C3003 - * DEFAULT PREP *** **										
LCS (P3C3003-BS1)				Prepared & Analyzed: 03/30/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.0962	0.00100	"	0.100		96.2	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.4	80-120			
Xylene (o)	0.0921	0.00100	"	0.100		92.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.8*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3003 - * DEFAULT PREP *** **										
LCS Dup (P3C3003-BSD1)				Prepared & Analyzed: 03/30/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	11.4	20	
Toluene	0.0854	0.00100	"	0.100		85.4	80-120	11.9	20	
Ethylbenzene	0.0840	0.00100	"	0.100		84.0	80-120	11.3	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.3	80-120	3.90	20	
Xylene (o)	0.0814	0.00100	"	0.100		81.4	80-120	12.2	20	
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.5*	*80-120*			
Calibration Blank (P3C3003-CCB1)				Prepared & Analyzed: 03/30/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*83.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.1*	*80-120*			
Calibration Blank (P3C3003-CCB2)				Prepared: 03/30/23 Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*92.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*97.0*	*80-120*			
Calibration Check (P3C3003-CCV1)				Prepared & Analyzed: 03/30/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.0906	0.00100	"	0.100		90.6	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.4	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.9*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3003 - * DEFAULT PREP *** **										
Calibration Check (P3C3003-CCV2)				Prepared: 03/30/23 Analyzed: 03/31/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0979	0.00100	"	0.100		97.9	80-120			
Ethylbenzene	0.0929	0.00100	"	0.100		92.9	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.3	80-120			
Xylene (o)	0.0922	0.00100	"	0.100		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*75-125*			
Calibration Check (P3C3003-CCV3)				Prepared: 03/30/23 Analyzed: 03/31/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.0927	0.00100	"	0.100		92.7	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.7	80-120			
Xylene (o)	0.0930	0.00100	"	0.100		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.6*	*75-125*			
Matrix Spike (P3C3003-MS1)		**Source: 3C27004-05**		Prepared: 03/30/23 Analyzed: 03/31/23						
Benzene	0.0843	0.00105	mg/kg dry	0.105	ND	80.1	80-120			
Toluene	0.0715	0.00105	"	0.105	ND	67.9	80-120			QM-05
Ethylbenzene	0.0666	0.00105	"	0.105	ND	63.3	80-120			QM-05
Xylene (p/m)	0.114	0.00211	"	0.211	ND	54.2	80-120			QM-05
Xylene (o)	0.0593	0.00105	"	0.105	ND	56.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.126*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		"	*0.126*		*105*	*80-120*			
Matrix Spike Dup (P3C3003-MSD1)		**Source: 3C27004-05**		Prepared: 03/30/23 Analyzed: 03/31/23						
Benzene	0.0832	0.00105	mg/kg dry	0.105	ND	79.1	80-120	1.34	20	QM-05
Toluene	0.0709	0.00105	"	0.105	ND	67.3	80-120	0.902	20	QM-05
Ethylbenzene	0.0663	0.00105	"	0.105	ND	63.0	80-120	0.507	20	QM-05
Xylene (p/m)	0.113	0.00211	"	0.211	ND	53.7	80-120	0.964	20	QM-05
Xylene (o)	0.0586	0.00105	"	0.105	ND	55.6	80-120	1.14	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.126*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.132*		"	*0.126*		*104*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Blank (P3C3103-BLK1)				Prepared & Analyzed: 03/31/23						
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	*0.108*		"	*0.120*		*89.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0990*		"	*0.120*		*82.5*	*80-120*			
LCS (P3C3103-BS1)				Prepared & Analyzed: 03/31/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.5*	*80-120*			
LCS Dup (P3C3103-BSD1)				Prepared & Analyzed: 03/31/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120	1.17	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	2.21	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	2.32	20	
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120	2.12	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	2.84	20	
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.3*	*80-120*			
Calibration Blank (P3C3103-CCB1)				Prepared & Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.8*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Calibration Blank (P3C3103-CCB2)				Prepared & Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.430		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.109*		*"*	*0.120*		*91.0*	*80-120*			
Calibration Check (P3C3103-CCV1)				Prepared & Analyzed: 03/31/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*75-125*			
Calibration Check (P3C3103-CCV2)				Prepared & Analyzed: 03/31/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		86.8	80-120			
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.1*	*75-125*			
Calibration Check (P3C3103-CCV3)				Prepared & Analyzed: 03/31/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0984	0.00100	"	0.100		98.4	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.5	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.1*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Matrix Spike (P3C3103-MS1)	**Source: 3C27004-25**			Prepared & Analyzed: 03/31/23						
Benzene	0.0677	0.00105	mg/kg dry	0.105	ND	64.3	80-120			QM-05
Toluene	0.0610	0.00105	"	0.105	ND	58.0	80-120			QM-05
Ethylbenzene	0.0553	0.00105	"	0.105	ND	52.5	80-120			QM-05
Xylene (p/m)	0.0977	0.00211	"	0.211	ND	46.4	80-120			QM-05
Xylene (o)	0.0505	0.00105	"	0.105	ND	47.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.126*		*96.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.139*		*"*	*0.126*		*110*	*80-120*			
Matrix Spike Dup (P3C3103-MSD1)	**Source: 3C27004-25**			Prepared & Analyzed: 03/31/23						
Benzene	0.0751	0.00105	mg/kg dry	0.105	ND	71.4	80-120	10.4	20	QM-05
Toluene	0.0687	0.00105	"	0.105	ND	65.3	80-120	11.9	20	QM-05
Ethylbenzene	0.0639	0.00105	"	0.105	ND	60.7	80-120	14.4	20	QM-05
Xylene (p/m)	0.112	0.00211	"	0.211	ND	53.3	80-120	13.9	20	QM-05
Xylene (o)	0.0577	0.00105	"	0.105	ND	54.8	80-120	13.4	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.126*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.138*		*"*	*0.126*		*109*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2911 - TX 1005										
Blank (P3C2911-BLK1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*97.1*		*"*	*100*		*97.1*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
LCS (P3C2911-BS1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	768	25.0	mg/kg	1000		76.8	75-125			
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*51.8*		*"*	*50.0*		*104*	*70-130*			
LCS Dup (P3C2911-BSD1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	775	25.0	mg/kg	1000		77.5	75-125	1.02	20	
>C12-C28	1030	25.0	"	1000		103	75-125	0.706	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*52.6*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (P3C2911-CCV1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	471	25.0	mg/kg	500		94.2	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*55.3*		*"*	*50.0*		*111*	*70-130*			
Calibration Check (P3C2911-CCV2)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	454	25.0	mg/kg	500		90.7	85-115			
>C12-C28	490	25.0	"	500		98.0	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		*"*	*50.0*		*104*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2911 - TX 1005										
Matrix Spike (P3C2911-MS1)	**Source: 3C27004-13**			Prepared: 03/29/23 Analyzed: 04/01/23						
C6-C12	646	25.8	mg/kg dry	1030	ND	62.7	75-125			QM-05
>C12-C28	876	25.8	"	1030	13.5	83.7	75-125			
Surrogate: 1-Chlorooctane	*91.6*		*"*	*103*		*88.9*	*70-130*			
Surrogate: o-Terphenyl	*40.0*		*"*	*51.5*		*77.6*	*70-130*			
Matrix Spike Dup (P3C2911-MSD1)	**Source: 3C27004-13**			Prepared: 03/29/23 Analyzed: 04/01/23						
C6-C12	675	25.8	mg/kg dry	1030	ND	65.4	75-125	4.32	20	QM-05
>C12-C28	920	25.8	"	1030	13.5	87.9	75-125	4.94	20	
Surrogate: 1-Chlorooctane	*96.8*		*"*	*103*		*93.9*	*70-130*			
Surrogate: o-Terphenyl	*41.5*		*"*	*51.5*		*80.6*	*70-130*			
Batch P3C2913 - TX 1005										
Blank (P3C2913-BLK1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*64.6*		*"*	*50.0*		*129*	*70-130*			
LCS (P3C2913-BS1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	799	25.0	mg/kg	1000		79.9	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*65.2*		*"*	*50.0*		*130*	*70-130*			
LCS Dup (P3C2913-BSD1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	804	25.0	mg/kg	1000		80.4	75-125	0.585	20	
>C12-C28	1080	25.0	"	1000		108	75-125	0.778	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*65.7*		*"*	*50.0*		*131*	*70-130*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2913 - TX 1005										
Calibration Check (P3C2913-CCV1)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	490	25.0	mg/kg	500		98.0	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*65.8*		*"*	*50.0*		*132*	*70-130*			*S-GC*
Calibration Check (P3C2913-CCV2)				Prepared: 03/29/23 Analyzed: 03/30/23						
C6-C12	499	25.0	mg/kg	500		99.9	85-115			
>C12-C28	541	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*68.2*		*"*	*50.0*		*136*	*70-130*			*S-GC*
Matrix Spike (P3C2913-MS1)		**Source: 3C27004-33**		Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	764	27.5	mg/kg dry	1100	16.7	68.0	75-125			R3
>C12-C28	1070	27.5	"	1100	ND	97.6	75-125			
Surrogate: 1-Chlorooctane	*130*		*"*	*110*		*118*	*70-130*			
Surrogate: o-Terphenyl	*64.8*		*"*	*54.9*		*118*	*70-130*			
Matrix Spike Dup (P3C2913-MSD1)		**Source: 3C27004-33**		Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	766	27.5	mg/kg dry	1100	16.7	68.2	75-125	0.269	20	R3
>C12-C28	1060	27.5	"	1100	ND	96.6	75-125	1.01	20	
Surrogate: 1-Chlorooctane	*130*		*"*	*110*		*119*	*70-130*			
Surrogate: o-Terphenyl	*69.4*		*"*	*54.9*		*126*	*70-130*			
Batch P3C2917 - TX 1005										
Blank (P3C2917-BLK1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*65.8*		*"*	*50.0*		*132*	*70-130*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2917 - TX 1005										
LCS (P3C2917-BS1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	805	25.0	mg/kg	1000		80.5	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*66.5*		*"*	*50.0*		*133*	*70-130*			*S-GC*
LCS Dup (P3C2917-BSD1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	801	25.0	mg/kg	1000		80.1	75-125	0.440	20	
>C12-C28	1080	25.0	"	1000		108	75-125	0.140	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*65.8*		*"*	*50.0*		*132*	*70-130*			*S-GC*
Calibration Check (P3C2917-CCV1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	478	25.0	mg/kg	500		95.7	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*130*		*"*	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*67.9*		*"*	*50.0*		*136*	*70-130*			*S-GC*
Calibration Check (P3C2917-CCV2)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	491	25.0	mg/kg	500		98.3	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*68.5*		*"*	*50.0*		*137*	*70-130*			*S-GC*
Matrix Spike (P3C2917-MS1)		**Source: 3C28007-06**		Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	920	32.5	mg/kg dry	1300	15.5	69.7	75-125			QM-05
>C12-C28	1290	32.5	"	1300	ND	99.2	75-125			
Surrogate: 1-Chlorooctane	*161*		*"*	*130*		*124*	*70-130*			
Surrogate: o-Terphenyl	*77.9*		*"*	*64.9*		*120*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2917 - TX 1005										
Matrix Spike Dup (P3C2917-MSD1)	**Source: 3C28007-06**			Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	913	32.5	mg/kg dry	1300	15.5	69.1	75-125	0.796	20	QM-05
>C12-C28	1280	32.5	"	1300	ND	98.4	75-125	0.844	20	
Surrogate: 1-Chlorooctane	*160*		*"*	*130*		*123*	*70-130*			
Surrogate: o-Terphenyl	*77.0*		*"*	*64.9*		*119*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2803 - * DEFAULT PREP *** **										
Blank (P3C2803-BLK1)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK2)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK3)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK4)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Blank (P3C2803-BLK5)				Prepared & Analyzed: 03/28/23						
% Moisture	ND	0.1	%							
Duplicate (P3C2803-DUP1)	**Source: 3C24008-10**			Prepared & Analyzed: 03/28/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3C2803-DUP2)	**Source: 3C24008-20**			Prepared & Analyzed: 03/28/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3C2803-DUP3)	**Source: 3C24008-35**			Prepared & Analyzed: 03/28/23						
% Moisture	5.0	0.1	%		4.0			22.2	20	R3
Duplicate (P3C2803-DUP4)	**Source: 3C24008-45**			Prepared & Analyzed: 03/28/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3C2803-DUP5)	**Source: 3C27003-25**			Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2803 - * DEFAULT PREP *** **										
Duplicate (P3C2803-DUP6)		**Source: 3C27003-35**		Prepared & Analyzed: 03/28/23						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P3C2803-DUP7)		**Source: 3C27004-10**		Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P3C2803-DUP8)		**Source: 3C27004-20**		Prepared & Analyzed: 03/28/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3C2803-DUP9)		**Source: 3C27013-02**		Prepared & Analyzed: 03/28/23						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P3C2803-DUPA)		**Source: 3C27014-10**		Prepared & Analyzed: 03/28/23						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Batch P3C3005 - * DEFAULT PREP *** **										
Blank (P3C3005-BLK1)				Prepared & Analyzed: 03/30/23						
% Moisture	ND	0.1	%							
Blank (P3C3005-BLK2)				Prepared & Analyzed: 03/30/23						
% Moisture	ND	0.1	%							
Blank (P3C3005-BLK3)				Prepared & Analyzed: 03/30/23						
% Moisture	ND	0.1	%							
Blank (P3C3005-BLK4)				Prepared & Analyzed: 03/30/23						
% Moisture	ND	0.1	%							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C3005 - * DEFAULT PREP *** **										
Duplicate (P3C3005-DUP1)	**Source: 3C27010-03**			Prepared & Analyzed: 03/30/23						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P3C3005-DUP2)	**Source: 3C28007-07**			Prepared & Analyzed: 03/30/23						
% Moisture	25.0	0.1	%		25.0			0.00	20	
Duplicate (P3C3005-DUP3)	**Source: 3C27004-36**			Prepared & Analyzed: 03/30/23						
% Moisture	9.0	0.1	%		8.0			11.8	20	
Batch P3C3007 - * DEFAULT PREP *** **										
Blank (P3C3007-BLK1)				Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	ND	1.00	mg/kg							
LCS (P3C3007-BS1)				Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	20.3		mg/kg	20.0		101	90-110			
LCS Dup (P3C3007-BSD1)				Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	20.4		mg/kg	20.0		102	90-110	0.394	10	
Calibration Check (P3C3007-CCV1)				Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P3C3007-CCV2)				Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	21.3		mg/kg	20.0		106	90-110			
Matrix Spike (P3C3007-MS1)	**Source: 3C24013-02**			Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	497	1.01	mg/kg dry	50.5	463	67.1	80-120			QM-05

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C3007 - * DEFAULT PREP *** **										
Matrix Spike (P3C3007-MS2)	**Source: 3C27004-10**			Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	690	1.05	mg/kg dry	105	554	129	80-120			QM-05
Matrix Spike Dup (P3C3007-MSD1)	**Source: 3C24013-02**			Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	482	1.01	mg/kg dry	50.5	463	36.7	80-120	3.14	20	QM-05
Matrix Spike Dup (P3C3007-MSD2)	**Source: 3C27004-10**			Prepared: 03/30/23 Analyzed: 04/02/23						
Chloride	627	1.05	mg/kg dry	105	554	68.6	80-120	9.63	20	QM-05
Batch P3C3008 - * DEFAULT PREP *** **										
Blank (P3C3008-BLK1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	ND	1.00	mg/kg							
LCS (P3C3008-BS1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.2		mg/kg	20.0		106	90-110			
LCS Dup (P3C3008-BSD1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	20.9		mg/kg	20.0		104	90-110	1.66	10	
Calibration Check (P3C3008-CCV1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.8		mg/kg	20.0		109	90-110			
Calibration Check (P3C3008-CCV2)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.7		mg/kg	20.0		108	90-110			
Matrix Spike (P3C3008-MS1)	**Source: 3C27004-20**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	115		mg/kg	50.0	52.3	125	80-120			QM-05

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C3008 - * DEFAULT PREP *** **										
Matrix Spike (P3C3008-MS2)	**Source: 3C27004-30**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	117		mg/kg	50.0	68.1	98.3	80-120			
Matrix Spike Dup (P3C3008-MSD1)	**Source: 3C27004-20**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	125		mg/kg	50.0	52.3	145	80-120	8.00	20	QM-05
Matrix Spike Dup (P3C3008-MSD2)	**Source: 3C27004-30**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	116		mg/kg	50.0	68.1	95.7	80-120	1.11	20	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: Brent Barron Date: 4/6/2023

Brent Barron, Laboratory Director/Technical Director

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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No. 2964

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CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/2023 PAGE 1 OF 3

PO#: LAB WORK ORDER#: 3C27004

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐	TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-41 1'	1	3/23	9:25	S	1				X		X			X	X	X																		X		
C-42 1'	2		9:30		1																																
C-43 1'	3		9:35		1																																
C-44 1'	4		9:45		1																																
C-45 1'	5		9:50		1																																
C-46 1'	6		10:00		1																																
C-47 1'	7		10:05		1																																
C-48 1'	8		10:10		1																																
C-49 1'	9		10:15		1																																
C-50 1'	10		10:40		1																																
C-51 1'	11		10:45		1																																
C-52 1'	12		10:50		1																																
C-53 1'	13		11:00		1																																
C-54 1'	14		11:05		1																																
C-55 1'	15		11:10		1																																
TOTAL																																				

RELINQUISHED BY:(Signature) DATE/TIME 3/27/23 1007 RECEIVED BY:(Signature) Nina Bledsoe

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

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

LABORATORY: PBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -3.4 THERM#: NCF C3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
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No. 2965

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CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/23 PAGE 2 OF 3

PO#: LAB WORK ORDER#: 3C27004

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☑ MTBE ☐	TPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	D.W. 200.8 ☐	OTHER LIST ☐	LEAD - TOTAL ☐	TOX ☐	TCLP ☐	RCI ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-56 1'	16	3/23/23	11:15	S	1				X		X			X	X	X																									X			
C-57 1'	17		11:20		1																																						
C-58 1'	18		11:25		1																																						
C-59 1'	19		11:40		1																																						
C-60 1'	20		11:50		1																																						
C-61 1'	21		12:00		1																																						
C-62 1'	22		12:10		1																																						
C-63 1'	23		12:20		1																																						
C-64 1'	24		12:25		1																																						
C-65 1'	25		12:35		1																																						
C-66 1'	26		12:45		1																																						
C-67 1'	27		12:55		1																																						
C-68 1'	28		1:10		1																																						
C-69 1'	29		1:20		1																																						
C-70 1'	30		1:30		1																																						
TOTAL																																											

RELINQUISHED BY:(Signature) DATE/TIME 3/27/23 1007 RECEIVED BY: (Signature) Trina Bladon

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

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

LABORATORY: PBL

TURN AROUND TIME

NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: -3.4 THERM#: NCF 63

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #

☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Page 580 of 1437

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/23 PAGE 3 OF 3

PO#: LAB WORK ORDER#: 3C27004

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-02 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MST/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ OTHER LIST ☐	LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TCLP ☐	RCI ☐ TOX ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-71 1'	31	3/23/23	1:35	S	1				X		X		X	X	X												X			
C-72 1'	32	"	1:45	"	1				"		"		"	"	"												"			
C-73 1'	33	"	2:50	"	1				"		"		"	"	"												"			
C-74 1'	34	"	3:00	"	1				"		"		"	"	"												"			
C-75 1'	35	"	3:10	"	1				"		"		"	"	"												"			
C-76 1'	36	"	3:20	"	1				"		"		"	"	"												"			
C-77 1'	37	"	3:30	"	1				"		"		"	"	"												"			
TOTAL																														

RELINQUISHED BY:(Signature) DATE/TIME 3/27/23 1007 RECEIVED BY: (Signature) Tiffany Bildoe

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

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

LABORATORY: PBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3C27005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/06/23

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-78 @ 2'	3C27005-01	Soil	03/24/23 08:40	03-27-2023 10:07
C-79 @ 2'	3C27005-02	Soil	03/24/23 08:50	03-27-2023 10:07
C-80 @ 2'	3C27005-03	Soil	03/24/23 09:00	03-27-2023 10:07
C-81 @ 2'	3C27005-04	Soil	03/24/23 09:05	03-27-2023 10:07
C-82 @ 2'	3C27005-05	Soil	03/24/23 09:10	03-27-2023 10:07
C-83 @ 2'	3C27005-06	Soil	03/24/23 09:20	03-27-2023 10:07
C-84 @ 2'	3C27005-07	Soil	03/24/23 09:30	03-27-2023 10:07
C-85 @ 2'	3C27005-08	Soil	03/24/23 09:35	03-27-2023 10:07
C-86 @ 2'	3C27005-09	Soil	03/24/23 09:45	03-27-2023 10:07
C-87 @ 2'	3C27005-10	Soil	03/24/23 09:55	03-27-2023 10:07

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-78 @ 2'

3C27005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:32	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:32	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:32	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:32	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.7 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:32*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:00	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:00*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 06:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**158**	1.09	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 19:22	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-79 @ 2'

3C27005-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:52	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:52	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:52	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:52	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 17:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.6 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 17:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:22	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:22	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*136 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:22*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 06:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**149**	1.06	mg/kg dry	1	P3C3008	03/31/23 15:31	04/03/23 19:37	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-80 @ 2'

3C27005-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:13	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:13	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:13	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:13	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.1 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:44	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:44	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 06:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.6 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 06:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 06:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**186**	1.06	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 21:03	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-81 @ 2'

3C27005-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:33	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:33	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:33	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:33	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:33*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:06	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:06	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:06	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:06*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 07:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**116**	1.09	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 21:17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-82 @ 2'

3C27005-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:54	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:54	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:54	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:54	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 18:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:54*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 18:54*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:28	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:28	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:28*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 07:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**213**	1.06	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 21:32	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-83 @ 2'

3C27005-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:14	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:14	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:14	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:14	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 19:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 19:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:50	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:50	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 07:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*133 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 07:50*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 07:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**104**	1.10	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 21:46	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-84 @ 2'

3C27005-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:35	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:35	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:35	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:35	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3C3103	03/31/23 09:34	03/31/23 19:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 19:35*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		*P3C3103*	*03/31/23 09:34*	*03/31/23 19:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 08:57	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 08:57	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 08:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 08:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 08:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 08:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**489**	1.08	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 22:00	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-85 @ 2'

3C27005-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:01	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:01	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:01	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:01	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:01*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.5 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 17:46	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 17:46	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 17:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 17:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 17:46*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 17:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**685**	1.09	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 22:15	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-86 @ 2'

3C27005-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.3 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.2 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:08	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:08	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 18:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*146 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 18:08*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 18:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**421**	1.09	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 22:29	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-87 @ 2'

3C27005-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:42	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:42	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:42	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:42	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3104	03/31/23 09:39	04/01/23 16:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3C3104*	*03/31/23 09:39*	*04/01/23 16:42*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:30	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:30	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3C2917	03/29/23 15:37	03/31/23 18:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 18:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P3C2917*	*03/29/23 15:37*	*03/31/23 18:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/29/23 15:37	03/31/23 18:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**182**	1.04	mg/kg dry	1	P3C3009	03/31/23 15:32	04/03/23 22:43	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3C2906	03/29/23 11:21	03/29/23 11:31	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Blank (P3C3103-BLK1)				Prepared & Analyzed: 03/31/23						
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	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0990*		*"*	*0.120*		*82.5*	*80-120*			
LCS (P3C3103-BS1)				Prepared & Analyzed: 03/31/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.7*	*80-120*			
LCS Dup (P3C3103-BSD1)				Prepared & Analyzed: 03/31/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120	1.17	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	2.21	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	2.32	20	
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120	2.12	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	2.84	20	
Surrogate: 4-Bromofluorobenzene	*0.112*		*"*	*0.120*		*93.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.3*	*80-120*			
Calibration Blank (P3C3103-CCB1)				Prepared & Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.111*		*"*	*0.120*		*92.7*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Calibration Blank (P3C3103-CCB2)				Prepared & Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.430		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.109*		*"*	*0.120*		*91.0*	*80-120*			
Calibration Check (P3C3103-CCV1)				Prepared & Analyzed: 03/31/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*75-125*			
Calibration Check (P3C3103-CCV2)				Prepared & Analyzed: 03/31/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		86.8	80-120			
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*75-125*			
Calibration Check (P3C3103-CCV3)				Prepared & Analyzed: 03/31/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0984	0.00100	"	0.100		98.4	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.5	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.1*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3103 - * DEFAULT PREP *** **										
Matrix Spike (P3C3103-MS1)	**Source: 3C27004-25**			Prepared & Analyzed: 03/31/23						
Benzene	0.0677	0.00105	mg/kg dry	0.105	ND	64.3	80-120			QM-05
Toluene	0.0610	0.00105	"	0.105	ND	58.0	80-120			QM-05
Ethylbenzene	0.0553	0.00105	"	0.105	ND	52.5	80-120			QM-05
Xylene (p/m)	0.0977	0.00211	"	0.211	ND	46.4	80-120			QM-05
Xylene (o)	0.0505	0.00105	"	0.105	ND	47.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.126*		*96.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.126*		*110*	*80-120*			
Matrix Spike Dup (P3C3103-MSD1)	**Source: 3C27004-25**			Prepared & Analyzed: 03/31/23						
Benzene	0.0751	0.00105	mg/kg dry	0.105	ND	71.4	80-120	10.4	20	QM-05
Toluene	0.0687	0.00105	"	0.105	ND	65.3	80-120	11.9	20	QM-05
Ethylbenzene	0.0639	0.00105	"	0.105	ND	60.7	80-120	14.4	20	QM-05
Xylene (p/m)	0.112	0.00211	"	0.211	ND	53.3	80-120	13.9	20	QM-05
Xylene (o)	0.0577	0.00105	"	0.105	ND	54.8	80-120	13.4	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.126*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.126*		*109*	*80-120*			
Batch P3C3104 - * DEFAULT PREP *** **										
Blank (P3C3104-BLK1)				Prepared & Analyzed: 03/31/23						
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	*0.0990*		"	*0.120*		*82.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*89.7*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3104 - * DEFAULT PREP *** **										
LCS (P3C3104-BS1)				Prepared & Analyzed: 03/31/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.6*	*80-120*			
LCS Dup (P3C3104-BSD1)				Prepared & Analyzed: 03/31/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120	5.48	20	
Toluene	0.103	0.00100	"	0.100		103	80-120	5.00	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120	4.72	20	
Xylene (p/m)	0.184	0.00200	"	0.200		91.8	80-120	4.93	20	
Xylene (o)	0.0973	0.00100	"	0.100		97.3	80-120	4.33	20	
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.120*		*109*	*80-120*			
Calibration Blank (P3C3104-CCB1)				Prepared & Analyzed: 03/31/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.220		"							
Xylene (p/m)	0.510		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.6*	*80-120*			
Calibration Blank (P3C3104-CCB2)				Prepared: 03/31/23 Analyzed: 04/01/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*89.6*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3104 - * DEFAULT PREP *** **										
Calibration Check (P3C3104-CCV1)				Prepared & Analyzed: 03/31/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0984	0.00100	"	0.100		98.4	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.5	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Calibration Check (P3C3104-CCV2)				Prepared: 03/31/23 Analyzed: 04/01/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.0970	0.00100	"	0.100		97.0	80-120			
Ethylbenzene	0.0897	0.00100	"	0.100		89.7	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.5	80-120			
Xylene (o)	0.0938	0.00100	"	0.100		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.7*	*75-125*			
Calibration Check (P3C3104-CCV3)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		85.2	80-120			
Xylene (o)	0.0953	0.00100	"	0.100		95.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*111*	*75-125*			
Matrix Spike (P3C3104-MS1)		**Source: 3C27005-08**		Prepared: 03/31/23 Analyzed: 04/01/23						
Benzene	0.0825	0.00109	mg/kg dry	0.109	ND	75.9	80-120			QM-05
Toluene	0.0605	0.00109	"	0.109	ND	55.7	80-120			QM-05
Ethylbenzene	0.0590	0.00109	"	0.109	ND	54.3	80-120			QM-05
Xylene (p/m)	0.0437	0.00217	"	0.217	ND	20.1	80-120			QM-05
Xylene (o)	0.0593	0.00109	"	0.109	ND	54.6	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.130*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.130*		*96.9*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3104 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3C3104-MSD1)	**Source: 3C27005-08**			Prepared: 03/31/23 Analyzed: 04/01/23						
Benzene	0.0816	0.00109	mg/kg dry	0.109	ND	75.1	80-120	1.03	20	QM-05
Toluene	0.0639	0.00109	"	0.109	ND	58.8	80-120	5.40	20	QM-05
Ethylbenzene	0.0587	0.00109	"	0.109	ND	54.0	80-120	0.573	20	QM-05
Xylene (p/m)	0.0985	0.00217	"	0.217	ND	45.3	80-120	77.1	20	QM-05
Xylene (o)	0.0614	0.00109	"	0.109	ND	56.4	80-120	3.35	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.146*		*"*	*0.130*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.130*		*97.1*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2917 - TX 1005										
Blank (P3C2917-BLK1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*65.8*		*"*	*50.0*		*132*	*70-130*			*S-GC*
LCS (P3C2917-BS1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	805	25.0	mg/kg	1000		80.5	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*66.5*		*"*	*50.0*		*133*	*70-130*			*S-GC*
LCS Dup (P3C2917-BSD1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	801	25.0	mg/kg	1000		80.1	75-125	0.440	20	
>C12-C28	1080	25.0	"	1000		108	75-125	0.140	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*65.8*		*"*	*50.0*		*132*	*70-130*			*S-GC*
Calibration Check (P3C2917-CCV1)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	478	25.0	mg/kg	500		95.7	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*130*		*"*	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*67.9*		*"*	*50.0*		*136*	*70-130*			*S-GC*
Calibration Check (P3C2917-CCV2)				Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	491	25.0	mg/kg	500		98.3	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*68.5*		*"*	*50.0*		*137*	*70-130*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2917 - TX 1005										
Matrix Spike (P3C2917-MS1)	**Source: 3C28007-06**			Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	920	32.5	mg/kg dry	1300	15.5	69.7	75-125			QM-05
>C12-C28	1290	32.5	"	1300	ND	99.2	75-125			
Surrogate: 1-Chlorooctane	*161*		*"*	*130*		*124*	*70-130*			
Surrogate: o-Terphenyl	*77.9*		*"*	*64.9*		*120*	*70-130*			
Matrix Spike Dup (P3C2917-MSD1)	**Source: 3C28007-06**			Prepared: 03/29/23 Analyzed: 03/31/23						
C6-C12	913	32.5	mg/kg dry	1300	15.5	69.1	75-125	0.796	20	QM-05
>C12-C28	1280	32.5	"	1300	ND	98.4	75-125	0.844	20	
Surrogate: 1-Chlorooctane	*160*		*"*	*130*		*123*	*70-130*			
Surrogate: o-Terphenyl	*77.0*		*"*	*64.9*		*119*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2906 - * DEFAULT PREP *** **										
Blank (P3C2906-BLK1)				Prepared & Analyzed: 03/29/23						
% Moisture	ND	0.1	%							
Blank (P3C2906-BLK2)				Prepared & Analyzed: 03/29/23						
% Moisture	ND	0.1	%							
Blank (P3C2906-BLK3)				Prepared & Analyzed: 03/29/23						
% Moisture	ND	0.1	%							
Blank (P3C2906-BLK4)				Prepared & Analyzed: 03/29/23						
% Moisture	ND	0.1	%							
Duplicate (P3C2906-DUP1)		**Source: 3C27005-10**		Prepared & Analyzed: 03/29/23						
% Moisture	5.0	0.1	%		4.0			22.2	20	R
Duplicate (P3C2906-DUP2)		**Source: 3C28004-04**		Prepared & Analyzed: 03/29/23						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P3C2906-DUP3)		**Source: 3C27006-12**		Prepared & Analyzed: 03/29/23						
% Moisture	32.0	0.1	%		30.0			6.45	20	
Duplicate (P3C2906-DUP4)		**Source: 3C27006-22**		Prepared & Analyzed: 03/29/23						
% Moisture	21.0	0.1	%		20.0			4.88	20	
Duplicate (P3C2906-DUP5)		**Source: 3C27006-37**		Prepared & Analyzed: 03/29/23						
% Moisture	22.0	0.1	%		22.0			0.00	20	
Duplicate (P3C2906-DUP6)		**Source: 3C27006-47**		Prepared & Analyzed: 03/29/23						
% Moisture	25.0	0.1	%		25.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C2906 - * DEFAULT PREP *** **										
Duplicate (P3C2906-DUP7)	**Source: 3C27006-62**			Prepared & Analyzed: 03/29/23						
% Moisture	19.0	0.1	%		20.0			5.13	20	
Duplicate (P3C2906-DUP8)	**Source: 3C27006-72**			Prepared & Analyzed: 03/29/23						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Batch P3C3008 - * DEFAULT PREP *** **										
Blank (P3C3008-BLK1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	ND	1.00	mg/kg							
LCS (P3C3008-BS1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.2		mg/kg	20.0		106	90-110			
LCS Dup (P3C3008-BSD1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	20.9		mg/kg	20.0		104	90-110	1.66	10	
Calibration Check (P3C3008-CCV1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.8		mg/kg	20.0		109	90-110			
Calibration Check (P3C3008-CCV2)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.7		mg/kg	20.0		108	90-110			
Matrix Spike (P3C3008-MS1)	**Source: 3C27004-20**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	115		mg/kg	50.0	52.3	125	80-120			QM-05
Matrix Spike (P3C3008-MS2)	**Source: 3C27004-30**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	117		mg/kg	50.0	68.1	98.3	80-120			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C3008 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3C3008-MSD1)	**Source: 3C27004-20**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	125		mg/kg	50.0	52.3	145	80-120	8.00	20	QM-05
Matrix Spike Dup (P3C3008-MSD2)	**Source: 3C27004-30**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	116		mg/kg	50.0	68.1	95.7	80-120	1.11	20	
Batch P3C3009 - * DEFAULT PREP *** **										
Blank (P3C3009-BLK1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	ND	1.00	mg/kg							
LCS (P3C3009-BS1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.0		mg/kg	20.0		105	90-110			
LCS Dup (P3C3009-BSD1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	20.8		mg/kg	20.0		104	90-110	0.723	10	
Calibration Check (P3C3009-CCV1)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	21.3		mg/kg	20.0		107	90-110			
Calibration Check (P3C3009-CCV2)				Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P3C3009-CCV3)				Prepared: 03/31/23 Analyzed: 04/04/23						
Chloride	19.7		mg/kg	20.0		98.5	90-110			
Matrix Spike (P3C3009-MS1)	**Source: 3C27006-01**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	1090		mg/kg	1000	2.46	109	80-120			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3C3009 - * DEFAULT PREP *** **										
Matrix Spike (P3C3009-MS2)	**Source: 3C27006-03**			Prepared: 03/31/23 Analyzed: 04/04/23						
Chloride	1090		mg/kg	1000	0.568	108	80-120			
Matrix Spike Dup (P3C3009-MSD1)	**Source: 3C27006-01**			Prepared: 03/31/23 Analyzed: 04/03/23						
Chloride	1070		mg/kg	1000	2.46	107	80-120	1.43	20	
Matrix Spike Dup (P3C3009-MSD2)	**Source: 3C27006-03**			Prepared: 03/31/23 Analyzed: 04/04/23						
Chloride	1070		mg/kg	1000	0.568	107	80-120	1.84	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
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: Brent Barron Date: 4/6/2023

Brent Barron, Laboratory Director/Technical Director

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/23 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 3C27005

PROJECT LOCATION OR NAME: PINEY ELDER

LAI PROJECT #: 22-0107-22 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D.W. 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | pH ☐ | CYANIDE ☐ | EXPLOSIVES ☐ | HEXAVALENT CHROMIUM ☐ | CHLORIDE ☐ | PECHLORATE ☐ | ANIONS ☐ | ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-78 2'	1	3/24/23	8:40	S	1				X		BTEX, TPH 1005, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-79 2'	2		8:50		1							
C-80 2'	3		9:00		1							
C-81 2'	4		9:05		1							
C-82 2'	5		9:10		1							
C-83 2'	6		9:20		1							
C-84 2'	7		9:30		1							
C-85 2'	8		9:35		1							
C-86 2'	9		9:45		1							
C-87 2'	10		9:55		1							
TOTAL												

RELINQUISHED BY:(Signature) DATE/TIME 3/27/23 1007 RECEIVED BY: (Signature) Jessa Bildoe

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

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

LABORATORY: PBL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -3.4 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3C31004

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/13/23

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

Project: Piney Elder
Project Number: 22-0107-02
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW3	3C31004-01	Soil	03/28/23 12:00	03-31-2023 08:43
SW4	3C31004-02	Soil	03/28/23 12:10	03-31-2023 08:43
SW5	3C31004-03	Soil	03/28/23 12:20	03-31-2023 08:43
SW6	3C31004-04	Soil	03/28/23 12:30	03-31-2023 08:43
SW7	3C31004-05	Soil	03/28/23 12:40	03-31-2023 08:43
SW10	3C31004-06	Soil	03/28/23 12:50	03-31-2023 08:43
C88	3C31004-07	Soil	03/28/23 13:00	03-31-2023 08:43
C89	3C31004-08	Soil	03/28/23 13:10	03-31-2023 08:43
C90	3C31004-09	Soil	03/28/23 13:20	03-31-2023 08:43
C91	3C31004-10	Soil	03/28/23 13:30	03-31-2023 08:43
C92	3C31004-11	Soil	03/28/23 13:40	03-31-2023 08:43
C93	3C31004-12	Soil	03/28/23 13:50	03-31-2023 08:43
C94	3C31004-13	Soil	03/28/23 14:00	03-31-2023 08:43
C95	3C31004-14	Soil	03/28/23 14:10	03-31-2023 08:43
C96	3C31004-15	Soil	03/28/23 14:20	03-31-2023 08:43
C97	3C31004-16	Soil	03/28/23 14:30	03-31-2023 08:43
C98	3C31004-17	Soil	03/28/23 14:40	03-31-2023 08:43
C99	3C31004-18	Soil	03/28/23 14:50	03-31-2023 08:43
C100	3C31004-19	Soil	03/28/23 15:00	03-31-2023 08:43
C101	3C31004-20	Soil	03/28/23 15:10	03-31-2023 08:43
C102	3C31004-21	Soil	03/28/23 15:20	03-31-2023 08:43
C103	3C31004-22	Soil	03/28/23 15:30	03-31-2023 08:43
C104	3C31004-23	Soil	03/28/23 15:40	03-31-2023 08:43
C105	3C31004-24	Soil	03/28/23 15:50	03-31-2023 08:43
C106	3C31004-25	Soil	03/28/23 16:00	03-31-2023 08:43
C107	3C31004-26	Soil	03/28/23 16:10	03-31-2023 08:43
C108	3C31004-27	Soil	03/29/23 08:00	03-31-2023 08:43
C109	3C31004-28	Soil	03/29/23 08:10	03-31-2023 08:43
SW11	3C31004-29	Soil	03/29/23 08:20	03-31-2023 08:43
SW12	3C31004-30	Soil	03/29/23 08:30	03-31-2023 08:43
C110	3C31004-31	Soil	03/29/23 08:40	03-31-2023 08:43
C111	3C31004-32	Soil	03/29/23 08:50	03-31-2023 08:43
C112	3C31004-33	Soil	03/29/23 09:00	03-31-2023 08:43
C113	3C31004-34	Soil	03/29/23 09:10	03-31-2023 08:43

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C114	3C31004-35	Soil	03/29/23 09:20	03-31-2023 08:43
C115	3C31004-36	Soil	03/29/23 09:30	03-31-2023 08:43
C116	3C31004-37	Soil	03/29/23 09:40	03-31-2023 08:43
C117	3C31004-38	Soil	03/29/23 09:50	03-31-2023 08:43
C118	3C31004-39	Soil	03/29/23 10:00	03-31-2023 08:43
C119	3C31004-40	Soil	03/29/23 10:10	03-31-2023 08:43
C120	3C31004-41	Soil	03/29/23 10:20	03-31-2023 08:43
C121	3C31004-42	Soil	03/29/23 10:30	03-31-2023 08:43
C122	3C31004-43	Soil	03/29/23 10:40	03-31-2023 08:43
C123	3C31004-44	Soil	03/29/23 10:50	03-31-2023 08:43
C124	3C31004-45	Soil	03/29/23 11:00	03-31-2023 08:43
C125	3C31004-46	Soil	03/29/23 11:10	03-31-2023 08:43
C126	3C31004-47	Soil	03/29/23 11:20	03-31-2023 08:43
C127	3C31004-48	Soil	03/29/23 11:30	03-31-2023 08:43
C128	3C31004-49	Soil	03/29/23 11:40	03-31-2023 08:43
C129	3C31004-50	Soil	03/29/23 11:50	03-31-2023 08:43
C130	3C31004-51	Soil	03/29/23 12:00	03-31-2023 08:43
C131	3C31004-52	Soil	03/29/23 12:10	03-31-2023 08:43
C132	3C31004-53	Soil	03/29/23 12:20	03-31-2023 08:43
C133	3C31004-54	Soil	03/29/23 12:30	03-31-2023 08:43
C134	3C31004-55	Soil	03/29/23 12:40	03-31-2023 08:43
C135	3C31004-56	Soil	03/29/23 12:50	03-31-2023 08:43
C136	3C31004-57	Soil	03/29/23 13:00	03-31-2023 08:43
C137	3C31004-58	Soil	03/29/23 13:10	03-31-2023 08:43
C138	3C31004-59	Soil	03/29/23 13:20	03-31-2023 08:43
C139	3C31004-60	Soil	03/29/23 13:30	03-31-2023 08:43
C140	3C31004-61	Soil	03/29/23 13:40	03-31-2023 08:43
C141	3C31004-62	Soil	03/29/23 13:50	03-31-2023 08:43
C142	3C31004-63	Soil	03/29/23 14:00	03-31-2023 08:43
C143	3C31004-64	Soil	03/29/23 14:10	03-31-2023 08:43
C144	3C31004-65	Soil	03/29/23 14:20	03-31-2023 08:43
C145	3C31004-66	Soil	03/29/23 14:30	03-31-2023 08:43
C146	3C31004-67	Soil	03/29/23 14:40	03-31-2023 08:43
C147	3C31004-68	Soil	03/29/23 14:50	03-31-2023 08:43

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C148	3C31004-69	Soil	03/29/23 15:00	03-31-2023 08:43
C149	3C31004-70	Soil	03/29/23 15:10	03-31-2023 08:43
C150	3C31004-71	Soil	03/29/23 15:20	03-31-2023 08:43
C151	3C31004-72	Soil	03/29/23 15:30	03-31-2023 08:43
C152	3C31004-73	Soil	03/29/23 15:40	03-31-2023 08:43
C153	3C31004-74	Soil	03/29/23 15:50	03-31-2023 08:43
C154	3C31004-75	Soil	03/29/23 16:00	03-31-2023 08:43
C155	3C31004-76	Soil	03/29/23 16:10	03-31-2023 08:43
SW13	3C31004-77	Soil	03/29/23 16:20	03-31-2023 08:43
SW14	3C31004-78	Soil	03/29/23 16:30	03-31-2023 08:43
SW15	3C31004-79	Soil	03/29/23 16:40	03-31-2023 08:43
SW16	3C31004-80	Soil	03/29/23 16:50	03-31-2023 08:43
SW17	3C31004-81	Soil	03/29/23 17:00	03-31-2023 08:43
SW18	3C31004-82	Soil	03/29/23 17:10	03-31-2023 08:43
C156	3C31004-83	Soil	03/30/23 08:05	03-31-2023 08:43
C157	3C31004-84	Soil	03/30/23 08:10	03-31-2023 08:43
C158	3C31004-85	Soil	03/30/23 08:15	03-31-2023 08:43
C159	3C31004-86	Soil	03/30/23 08:20	03-31-2023 08:43
C160	3C31004-87	Soil	03/30/23 08:25	03-31-2023 08:43
C161	3C31004-88	Soil	03/30/23 08:30	03-31-2023 08:43
C162	3C31004-89	Soil	03/30/23 08:35	03-31-2023 08:43
C163	3C31004-90	Soil	03/30/23 08:40	03-31-2023 08:43
C164	3C31005-01	Soil	03/30/23 08:45	03-31-2023 08:43
C165	3C31005-02	Soil	03/30/23 08:50	03-31-2023 08:43
C166	3C31005-03	Soil	03/30/23 08:55	03-31-2023 08:43
C167	3C31005-04	Soil	03/30/23 09:00	03-31-2023 08:43
C168	3C31005-05	Soil	03/30/23 09:05	03-31-2023 08:43
C169	3C31005-06	Soil	03/30/23 09:10	03-31-2023 08:43
C170	3C31005-07	Soil	03/30/23 09:15	03-31-2023 08:43
C171	3C31005-08	Soil	03/30/23 09:20	03-31-2023 08:43
C172	3C31005-09	Soil	03/30/23 09:25	03-31-2023 08:43
C173	3C31005-10	Soil	03/30/23 09:30	03-31-2023 08:43
C174	3C31005-11	Soil	03/30/23 09:35	03-31-2023 08:43
C175	3C31005-12	Soil	03/30/23 09:40	03-31-2023 08:43

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C176	3C31005-13	Soil	03/30/23 09:45	03-31-2023 08:43
C177	3C31005-14	Soil	03/30/23 09:50	03-31-2023 08:43
C178	3C31005-15	Soil	03/30/23 10:00	03-31-2023 08:43
C179	3C31005-16	Soil	03/30/23 10:05	03-31-2023 08:43
C180	3C31005-17	Soil	03/30/23 10:10	03-31-2023 08:43
C181	3C31005-18	Soil	03/30/23 10:15	03-31-2023 08:43
C182	3C31005-19	Soil	03/30/23 10:20	03-31-2023 08:43
C183	3C31005-20	Soil	03/30/23 10:25	03-31-2023 08:43
C184	3C31005-21	Soil	03/30/23 10:30	03-31-2023 08:43
C185	3C31005-22	Soil	03/30/23 10:35	03-31-2023 08:43
C186	3C31005-23	Soil	03/30/23 10:40	03-31-2023 08:43
C187	3C31005-24	Soil	03/30/23 10:45	03-31-2023 08:43
C188	3C31005-25	Soil	03/30/23 10:50	03-31-2023 08:43
C189	3C31005-26	Soil	03/30/23 10:55	03-31-2023 08:43
C190	3C31005-27	Soil	03/30/23 11:00	03-31-2023 08:43
C191	3C31005-28	Soil	03/30/23 11:05	03-31-2023 08:43
C192	3C31005-29	Soil	03/30/23 11:15	03-31-2023 08:43
C193	3C31005-30	Soil	03/30/23 11:20	03-31-2023 08:43
C194	3C31005-31	Soil	03/30/23 11:25	03-31-2023 08:43
C195	3C31005-32	Soil	03/30/23 11:30	03-31-2023 08:43
C196	3C31005-33	Soil	03/30/23 11:45	03-31-2023 08:43
C197	3C31005-34	Soil	03/30/23 11:50	03-31-2023 08:43

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW3

3C31004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 08:42	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 08:42	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 08:42	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 08:42	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 08:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 08:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 08:42*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:06	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:06	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:06	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.1 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:06*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.1 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/04/23 11:20	04/05/23 23:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**190**	1.01	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 19:59	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW4

3C31004-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:03	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:03	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:03	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:03	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 09:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 09:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:31	TPH 8015M	
>C12-C28	**59.1**	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:31	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.3 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.3 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**59.1**	26.0	mg/kg dry	1	[CALC]	04/04/23 11:20	04/05/23 23:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2450**	1.04	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 20:13	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW5

3C31004-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:24	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:24	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:24	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:24	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3C3117	03/31/23 16:46	04/02/23 09:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 09:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3C3117*	*03/31/23 16:46*	*04/02/23 09:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:55	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:55	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/05/23 23:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.3 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/05/23 23:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/04/23 11:20	04/05/23 23:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2330**	1.02	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 20:28	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW6

3C31004-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:24	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:24	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:24	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:24	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 13:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 13:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 00:21	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 00:21	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 00:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 00:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.9 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 00:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 00:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**238**	1.03	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 20:42	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW7

3C31004-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:45	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:45	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:45	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:45	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 13:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 13:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 13:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 01:38	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 01:38	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 01:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 01:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 01:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 01:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**339**	1.04	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 20:56	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW10

3C31004-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:05	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:05	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:05	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:05	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:02	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:02	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.7 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 02:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**774**	1.05	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 21:11	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C88

3C31004-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:26	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:26	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:26	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:26	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:28	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:28	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.9 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 02:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**196**	1.02	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 21:25	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C89

3C31004-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:47	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:47	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:47	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:47	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 14:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 14:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:52	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:52	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 02:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.4 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.9 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 02:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 02:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**753**	1.01	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 21:39	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C90

3C31004-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:07	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:07	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:07	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:07	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 03:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*80.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 03:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 03:17	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1050**	1.03	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 21:54	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C91

3C31004-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:28	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:28	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:28	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:28	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:28*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:42	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:42	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 03:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.3 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 03:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*81.4 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 03:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 03:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**988**	1.04	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 22:37	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C92

3C31004-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:49	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:49	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:49	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:49	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 15:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 15:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:07	TPH 8015M	
>C12-C28	**35.7**	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:07	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.3 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**35.7**	25.5	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 04:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1130**	1.02	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 22:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C93

3C31004-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:10	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:10	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:10	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:10	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 16:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 16:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:33	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:33	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.0 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 04:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3520**	5.10	mg/kg dry	5	P3D0516	04/05/23 14:51	04/07/23 23:05	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C94

3C31004-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:30	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:30	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:30	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:30	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 16:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.0 %*		*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 16:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*		*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 16:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:58	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:58	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 04:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.7 %*		*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.1 %*		*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 04:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 04:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1380**	1.03	mg/kg dry	1	P3D0516	04/05/23 14:51	04/07/23 23:48	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C95

3C31004-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:33	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:33	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:33	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:33	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 17:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 17:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 05:24	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 05:24	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0406	04/04/23 11:20	04/06/23 05:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.2 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 05:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P3D0406*	*04/04/23 11:20*	*04/06/23 05:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 11:20	04/06/23 05:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4110**	5.21	mg/kg dry	5	P3D0516	04/05/23 14:51	04/08/23 00:03	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C96

3C31004-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:53	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 17:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 17:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 17:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:37	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:37	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 22:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 22:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/04/23 11:45	04/05/23 22:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4020**	5.00	mg/kg dry	5	P3D0516	04/05/23 14:51	04/08/23 00:17	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C97

3C31004-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:14	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:14	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:14	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.5 %*		*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*		*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:59	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:59	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 22:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 22:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 22:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 11:45	04/05/23 22:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5580**	5.26	mg/kg dry	5	P3D0516	04/05/23 14:51	04/08/23 00:31	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C98

3C31004-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:35	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:35	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:35	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:35	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:21	TPH 8015M	
>C12-C28	**62.6**	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.0 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 23:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 23:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**62.6**	25.5	mg/kg dry	1	[CALC]	04/04/23 11:45	04/05/23 23:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2270**	5.10	mg/kg dry	5	P3D0516	04/05/23 14:51	04/08/23 00:46	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C99

3C31004-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:55	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:55	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:55	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:55	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 18:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 18:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:43	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:43	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0407	04/04/23 11:45	04/05/23 23:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 23:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/05/23 23:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/04/23 11:45	04/05/23 23:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4310**	5.32	mg/kg dry	5	P3D0516	04/05/23 14:51	04/08/23 01:00	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C100

3C31004-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:16	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:05	TPH 8015M	
>C12-C28	**194**	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:05	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**194**	25.5	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 00:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1080**	1.02	mg/kg dry	1	P3D0516	04/05/23 14:51	04/08/23 01:15	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C101

3C31004-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:37	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:37	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:37	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:37	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:37*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:27	TPH 8015M	
>C12-C28	**126**	25.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:27	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**126**	25.3	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 00:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1170**	1.01	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 16:50	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0202	04/02/23 21:26	04/03/23 10:01	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C102

3C31004-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:57	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:57	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:57	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:57	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 19:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 19:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:50	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:50	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 00:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 00:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 00:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**782**	1.02	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 17:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C103

3C31004-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:18	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:18	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:18	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:18	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 20:18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 20:18*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:12	TPH 8015M	
>C12-C28	**72.3**	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:12	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.9 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**72.3**	25.5	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 01:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**931**	1.02	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 18:12	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C104

3C31004-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0301	04/03/23 10:27	04/03/23 20:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 20:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.6 %*	*80-120*		*P3D0301*	*04/03/23 10:27*	*04/03/23 20:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:34	TPH 8015M	
>C12-C28	**118**	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:34	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**118**	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 01:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1130**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 18:32	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C105

3C31004-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:31	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:31	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:31	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:31	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*117 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 15:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.7 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 15:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:56	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:56	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 01:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 01:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 01:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**725**	1.05	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 18:53	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C106

3C31004-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:51	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:51	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:51	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:51	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 15:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.0 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 15:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 15:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:02	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:02	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.4 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 03:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**529**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 19:13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C107

3C31004-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:12	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:12	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:12	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:12	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.2 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:12*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:24	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:24	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 03:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1310**	1.05	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 19:34	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C108

3C31004-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:33	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:33	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:33	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:33	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.7 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:46	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:46	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 03:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 03:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 03:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**489**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 19:54	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C109

3C31004-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:54	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:54	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:54	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:54	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 16:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:54*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.9 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 16:54*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:08	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:08	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.3 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 04:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**725**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 20:15	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW11

3C31004-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 17:55	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 17:55	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 17:55	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 17:55	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 17:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 17:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 17:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:30	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:30	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.0 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 04:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**134**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 20:35	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW12

3C31004-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:16	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.8 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:52	TPH 8015M	
>C12-C28	**92.7**	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:52	TPH 8015M	
>C28-C35	**29.0**	25.5	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 04:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.8 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 04:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**122**	25.5	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 04:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1230**	1.02	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 21:37	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C110

3C31004-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:36	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:36	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:36	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:36	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.0 %*		*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*		*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:15	TPH 8015M	
>C12-C28	**95.2**	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:15	TPH 8015M	
>C28-C35	**32.1**	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.7 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**127**	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 05:15	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1100**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 22:39	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C111

3C31004-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:57	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:57	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:57	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:57	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 18:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.3 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 18:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:37	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:37	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.3 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 05:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**375**	1.04	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 22:59	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C112

3C31004-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:18	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:18	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:18	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:18	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:18*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:59	TPH 8015M	
>C12-C28	**77.9**	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:59	TPH 8015M	
>C28-C35	**26.1**	25.8	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 05:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 05:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**104**	25.8	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 05:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**992**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 23:20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C113

3C31004-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:38	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:38	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:38	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:38	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.8 %*		*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*		*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 06:20	TPH 8015M	
>C12-C28	**57.3**	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 06:20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0407	04/04/23 11:45	04/06/23 06:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.3 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 06:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*		*70-130*		*P3D0407*	*04/04/23 11:45*	*04/06/23 06:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**57.3**	26.3	mg/kg dry	1	[CALC]	04/04/23 11:45	04/06/23 06:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**833**	1.05	mg/kg dry	1	P3D0517	04/05/23 14:53	04/06/23 23:40	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C114

3C31004-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:59	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:59	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:59	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:59	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 19:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.1 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:59*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 19:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:20	TPH 8015M	
>C12-C28	**80.2**	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:20	TPH 8015M	
>C28-C35	**26.3**	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 03:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 03:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**107**	25.8	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 03:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**801**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/07/23 00:01	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C115

3C31004-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 20:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 20:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:43	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:43	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 03:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.2 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 03:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 03:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 03:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**548**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/07/23 00:21	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C116

3C31004-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:39	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:39	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:39	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:39	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 20:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 20:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 20:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:05	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:05	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 04:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**589**	1.03	mg/kg dry	1	P3D0517	04/05/23 14:53	04/07/23 00:42	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C117

3C31004-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 21:00	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 21:00	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 21:00	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 21:00	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0401	04/04/23 10:36	04/04/23 21:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 21:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P3D0401*	*04/04/23 10:36*	*04/04/23 21:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:27	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:27	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.3 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 04:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**577**	1.04	mg/kg dry	1	P3D0517	04/05/23 14:53	04/07/23 01:02	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C118

3C31004-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/04/23 23:45	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/04/23 23:45	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/04/23 23:45	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/04/23 23:45	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/04/23 23:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/04/23 23:45*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/04/23 23:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:49	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:49	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 04:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.2 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 04:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 04:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**288**	1.04	mg/kg dry	1	P3D0517	04/05/23 14:53	04/07/23 01:23	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C119

3C31004-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:06	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:06	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:06	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:06	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:06*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:06*	*EPA 8021B*	*QM-05*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:12	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:12	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 05:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**395**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 13:55	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C120

3C31004-41 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:27	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:27	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:27	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:27	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:34	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:34	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 05:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**458**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 14:57	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C121

3C31004-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:49	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:49	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:49	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:49	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 00:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 00:49*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:56	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:56	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 05:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.9 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 05:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 05:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**893**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 15:17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C122

3C31004-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:10*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 06:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 06:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 06:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**627**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 15:38	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C123

3C31004-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:31	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:31	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:31	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:31	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:31*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:40	TPH 8015M	
>C12-C28	**60.6**	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:40	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 06:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 06:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 06:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**60.6**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 06:40	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**939**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 15:58	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C124

3C31004-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:52	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:52	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:52	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:52	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 01:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 01:52*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 07:47	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 07:47	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 07:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 07:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 07:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 07:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**589**	1.06	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 16:19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C125

3C31004-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:14	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:14	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:14	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:14	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:14*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:09	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:09	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 08:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**390**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 16:39	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C126

3C31004-47 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:35	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:35	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:35	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:35	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:35*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:30	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:30	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 08:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**484**	1.03	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 17:00	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C127

3C31004-48 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:56	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:56	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:56	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:56	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 02:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:56*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 02:56*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:52	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:52	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 08:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.4 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 08:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 08:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**878**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 17:20	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C128

3C31004-49 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:00	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:00	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:00	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:00	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:00*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:14	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:14	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 09:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**128**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 17:41	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C129

3C31004-50 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:22	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:22	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:22	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:22	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:22*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:22*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:36	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:36	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.5 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 09:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**543**	1.09	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 18:43	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C130

3C31004-51 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:43	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:43	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:43	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:43	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 04:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:43*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 04:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:58	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:58	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 09:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.1 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 09:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 09:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**518**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 19:44	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C131

3C31004-52 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:04	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:04	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:04	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:04	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:04*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 10:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 10:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 10:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**530**	1.06	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 20:05	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C132

3C31004-53 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:25	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:25	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:25	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:25	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:25*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:42	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:42	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 10:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.3 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 10:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 10:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 10:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**807**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 20:25	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C133

3C31004-54 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:46	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:46	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:46	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:46	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 05:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 05:46*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 11:04	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 11:04	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0408	04/04/23 12:00	04/07/23 11:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.5 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 11:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3D0408*	*04/04/23 12:00*	*04/07/23 11:04*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:00	04/07/23 11:04	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**715**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 20:46	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C134

3C31004-55 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:07	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:07	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:07	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:07	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:07*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*92.2 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:19	TPH 8015M	
>C12-C28	**97.2**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 14:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 14:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**97.2**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 14:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1710**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 21:06	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C135

3C31004-56 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:28	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:28	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:28	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:28	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*122 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:28*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:41	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:41	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 14:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 14:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*116 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 14:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 14:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**883**	1.05	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 21:27	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C136

3C31004-57 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:49	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:49	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:49	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:49	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 06:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 06:49*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:03	TPH 8015M	
>C12-C28	**95.4**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:03	TPH 8015M	
>C28-C35	**27.6**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 15:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 15:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**123**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 15:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1810**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 21:47	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C137

3C31004-58 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 07:11	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 07:11	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 07:11	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 07:11	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0403	04/04/23 10:51	04/05/23 07:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*121 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 07:11*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.0 %*	*80-120*		*P3D0403*	*04/04/23 10:51*	*04/05/23 07:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:24	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:24	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 15:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 15:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 15:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**494**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 22:08	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C138

3C31004-59 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 13:25	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 13:25	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 13:25	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 13:25	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 13:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.2 %*		*80-120*	*P3D0506*	*04/05/23 09:38*	*04/05/23 13:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*		*80-120*	*P3D0506*	*04/05/23 09:38*	*04/05/23 13:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:46	TPH 8015M	
>C12-C28	**109**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:46	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 15:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*		*70-130*	*P3D0409*	*04/04/23 12:15*	*04/07/23 15:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*115 %*		*70-130*	*P3D0409*	*04/04/23 12:15*	*04/07/23 15:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**109**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 15:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**983**	1.04	mg/kg dry	1	P3D0518	04/05/23 14:56	04/07/23 22:28	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C139

3C31004-60 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:38	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:38	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:38	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:38	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*88.6 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 15:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*121 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 15:38*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:08	TPH 8015M	
>C12-C28	**101**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:08	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**101**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 16:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**545**	1.04	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 14:09	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C140

3C31004-61 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:58	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:58	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:58	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:58	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 15:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*116 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 15:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.1 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 15:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:30	TPH 8015M	
>C12-C28	**89.7**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:30	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**89.7**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 16:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**918**	1.04	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 15:11	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C141

3C31004-62 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 16:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.6 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 16:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:52	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:52	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 16:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 16:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 16:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**546**	1.03	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 15:31	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C142

3C31004-63 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:39	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:39	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:39	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:39	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 16:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 16:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.4 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 16:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:13	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:13	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 17:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 17:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 17:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**783**	1.10	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 15:52	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C143

3C31004-64 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 17:41	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 17:41	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 17:41	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 17:41	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 17:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*82.5 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 17:41*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 17:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:35	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:35	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 17:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 17:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 17:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 17:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**837**	1.04	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 16:12	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C144

3C31004-65 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:28	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:28	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:28	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:28	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 15:28*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 15:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 18:40	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 18:40	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 18:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 18:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 18:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 18:40	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**746**	1.04	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 16:33	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C145

3C31004-66 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:49	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:49	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:49	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:49	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 15:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 15:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 15:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:02	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:02	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 19:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**662**	1.06	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 16:53	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C146

3C31004-67 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:09	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:09	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:09	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:09	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 16:09*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 16:09*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:23	TPH 8015M	
>C12-C28	**234**	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:23	TPH 8015M	
>C28-C35	**44.7**	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**278**	26.6	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 19:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2060**	1.06	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 17:14	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C147

3C31004-68 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:30	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:30	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:30	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:30	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 16:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 16:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 16:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:45	TPH 8015M	
>C12-C28	**53.1**	26.9	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:45	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 19:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 19:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**53.1**	26.9	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 19:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1490**	1.08	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 17:34	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C148

3C31004-69 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:31	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:31	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:31	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:31	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.0 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 17:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 17:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:07	TPH 8015M	
>C12-C28	**158**	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:07	TPH 8015M	
>C28-C35	**46.9**	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**205**	26.3	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 20:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**811**	1.05	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 17:55	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C149

3C31004-70 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:52	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:52	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:52	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:52	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 17:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.4 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 17:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 17:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:28	TPH 8015M	
>C12-C28	**210**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:28	TPH 8015M	
>C28-C35	**78.7**	26.0	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**289**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 20:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**613**	1.04	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 18:57	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C150

3C31004-71 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:13	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:13	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:13	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:13	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.6 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:50	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:50	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 20:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 20:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 20:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1120**	1.05	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 19:58	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C151

3C31004-72 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:33	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:33	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:33	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:33	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:12	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:12	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 21:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**827**	1.06	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 20:19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C152

3C31004-73 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:53	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:53	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:53	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:53	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 18:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 18:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:34	TPH 8015M	
>C12-C28	**160**	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:34	TPH 8015M	
>C28-C35	**83.9**	26.3	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**244**	26.3	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 21:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1220**	1.05	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 20:39	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C153

3C31004-74 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:13	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:13	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:13	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:13	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.8 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:55	TPH 8015M	
>C12-C28	**307**	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:55	TPH 8015M	
>C28-C35	**80.6**	26.6	mg/kg dry	1	P3D0409	04/04/23 12:15	04/07/23 21:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0409*	*04/04/23 12:15*	*04/07/23 21:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**388**	26.6	mg/kg dry	1	[CALC]	04/04/23 12:15	04/07/23 21:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1590**	1.06	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 21:00	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C154

3C31004-75 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:34	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:34	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:34	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:34	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:28	TPH 8015M	
>C12-C28	**73.3**	26.6	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:28	TPH 8015M	
>C28-C35	**41.8**	26.6	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/06/23 23:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/06/23 23:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**115**	26.6	mg/kg dry	1	[CALC]	04/04/23 12:30	04/06/23 23:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1620**	1.06	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 21:20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C155

3C31004-76 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:54	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:54	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:54	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:54	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 19:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:54*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 19:54*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:53	TPH 8015M	
>C12-C28	**46.6**	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:53	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/06/23 23:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/06/23 23:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/06/23 23:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**46.6**	26.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/06/23 23:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**983**	1.05	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 21:41	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW13

3C31004-77 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:15	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 20:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 20:15*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:19	TPH 8015M	
>C12-C28	**218**	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:19	TPH 8015M	
>C28-C35	**50.5**	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 00:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.0 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 00:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**268**	26.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 00:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1730**	1.05	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 22:01	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW14

3C31004-78 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:36	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:36	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:36	EPA 8021B	
Xylene (p/m)	**0.00297**	0.00204	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:36	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0506	04/05/23 09:38	04/05/23 20:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*117 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 20:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P3D0506*	*04/05/23 09:38*	*04/05/23 20:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:45	TPH 8015M	
>C12-C28	**616**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:45	TPH 8015M	
>C28-C35	**80.7**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 00:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 00:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 00:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**697**	25.5	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 00:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2330**	1.02	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 22:22	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW15

3C31004-79 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:23	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:23	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:23	EPA 8021B	
Xylene (p/m)	**0.00871**	0.00204	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:23	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/05/23 23:23*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*89.2 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/05/23 23:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:10	TPH 8015M	
>C12-C28	**3320**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:10	TPH 8015M	
>C28-C35	**446**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.9 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 01:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 01:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**3760**	25.5	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 01:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4590**	1.02	mg/kg dry	1	P3D0519	04/05/23 14:58	04/09/23 22:42	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW16

3C31004-80 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:44	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:44	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:44	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:44	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/05/23 23:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.1 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/05/23 23:44*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/05/23 23:44*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:35	TPH 8015M	
>C12-C28	**72.0**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:35	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 01:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 01:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 01:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**72.0**	25.5	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 01:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**704**	1.02	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 02:41	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW17

3C31004-81 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:06	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:06	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:06	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:06	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*128 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:06*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:00	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:00	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.9 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 02:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**657**	1.01	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 03:24	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

SW18

3C31004-82 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:27	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:27	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:27	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:27	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:27*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:24	TPH 8015M	
>C12-C28	**108**	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:24	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.5 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**108**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 02:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1580**	1.04	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 03:38	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C156

3C31004-83 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:48	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:48	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:48	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:48	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 00:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.0 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:48*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 00:48*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:49	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:49	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 02:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 02:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 02:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**600**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 03:52	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C157

3C31004-84 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:10	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:10	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:10	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:10	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:10*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 03:14	TPH 8015M	
>C12-C28	**55.3**	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 03:14	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 03:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.4 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 03:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 03:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**55.3**	25.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 03:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1170**	1.01	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 04:06	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C158

3C31004-85 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:31	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:31*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:31	TPH 8015M	
>C12-C28	**91.3**	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:31	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 04:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.1 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 04:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**91.3**	25.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 04:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1940**	1.01	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 04:21	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C159

3C31004-86 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:53	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:53	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:53	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:53	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 01:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:53*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*86.6 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 01:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:57	TPH 8015M	
>C12-C28	**187**	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:57	TPH 8015M	
>C28-C35	**38.1**	25.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 04:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.5 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 04:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 04:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**225**	25.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 04:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**692**	1.01	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 04:35	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C160

3C31004-87 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:14	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:14	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:14	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:14	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 02:14*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 02:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:22	TPH 8015M	
>C12-C28	**88.9**	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:22	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.1 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 05:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 05:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**88.9**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 05:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**640**	1.04	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 04:49	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C161

3C31004-88 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:35	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:35	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:35	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:35	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 02:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.5 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 02:35*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*130 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 02:35*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:47	TPH 8015M	
>C12-C28	**54.8**	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:47	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 05:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.3 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 05:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.8 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 05:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**54.8**	26.3	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 05:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**664**	1.05	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 05:04	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C162

3C31004-89 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:37	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:37	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:37	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:37	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.9 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 03:37*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*126 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 03:37*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:12	TPH 8015M	
>C12-C28	**76.7**	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:12	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.1 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 06:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.1 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 06:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**76.7**	26.0	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 06:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**878**	1.04	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 05:18	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C163

3C31004-90 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:58	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:58	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:58	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:58	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 03:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*128 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 03:58*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 03:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:38	TPH 8015M	
>C12-C28	**140**	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:38	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 06:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.6 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 06:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 06:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**140**	25.8	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 06:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1090**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 06:01	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0508	04/05/23 10:18	04/05/23 10:25	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C164

3C31005-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 04:19*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 04:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:04	TPH 8015M	
>C12-C28	**1650**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:04	TPH 8015M	
>C28-C35	**287**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*143 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:04*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**1930**	25.5	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 07:04	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**604**	1.02	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 06:43	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C165

3C31005-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:40	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:40	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:40	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:40	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 04:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*128 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 04:40*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 04:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:29	TPH 8015M	
>C12-C28	**793**	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:29	TPH 8015M	
>C28-C35	**101**	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**894**	25.8	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 07:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**731**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 06:58	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C166

3C31005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:01	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:01	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:01	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:01	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*91.8 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*128 %*		*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:01*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:54	TPH 8015M	
>C12-C28	**183**	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:54	TPH 8015M	
>C28-C35	**48.7**	25.8	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 07:54	TPH 8015M	
Surrogate: 1-Chlorooctane	*94.1 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:54*	*TPH 8015M*	
Surrogate: o-Terphenyl	*102 %*		*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 07:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**231**	25.8	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 07:54	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**812**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 07:12	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C167

3C31005-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:23	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:23	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:23	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:23	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*132 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:23*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 08:19	TPH 8015M	
>C12-C28	**232**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 08:19	TPH 8015M	
>C28-C35	**41.9**	25.5	mg/kg dry	1	P3D0410	04/04/23 12:30	04/07/23 08:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.9 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 08:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3D0410*	*04/04/23 12:30*	*04/07/23 08:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**273**	25.5	mg/kg dry	1	[CALC]	04/04/23 12:30	04/07/23 08:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**822**	1.02	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 07:26	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C168

3C31005-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:44	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:44	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:44	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:44	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 05:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*131 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:44*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 05:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:04	TPH 8015M	
>C12-C28	**177**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:04	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.2 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:04*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**177**	25.8	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 12:04	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**836**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 07:41	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C169

3C31005-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:05	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:05	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:05	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:05	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*128 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:05*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.7 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:29	TPH 8015M	
>C12-C28	**183**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:29	TPH 8015M	
>C28-C35	**28.7**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.7 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**212**	25.8	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 12:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1290**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 07:55	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C170

3C31005-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:26	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:26	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:26	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:26	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*133 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:26*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.6 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:53	TPH 8015M	
>C12-C28	**311**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:53	TPH 8015M	
>C28-C35	**66.3**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 12:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.0 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.1 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 12:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**377**	25.5	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 12:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1990**	1.02	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 08:09	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C171

3C31005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:47	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:47	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:47	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:47	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D0507	04/05/23 09:43	04/06/23 06:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:47*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P3D0507*	*04/05/23 09:43*	*04/06/23 06:47*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:18	TPH 8015M	
>C12-C28	**346**	26.0	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:18	TPH 8015M	
>C28-C35	**50.3**	26.0	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 13:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 13:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**397**	26.0	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 13:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1360**	1.04	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 08:24	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C172

3C31005-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:01	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:01	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:01	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:01	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:01*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.0 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:42	TPH 8015M	
>C12-C28	**410**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:42	TPH 8015M	
>C28-C35	**69.9**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 13:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.9 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 13:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 13:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**480**	25.8	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 13:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**829**	1.03	mg/kg dry	1	P3D0701	04/07/23 15:04	04/08/23 08:38	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C173

3C31005-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:22	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:22	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:22	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:22	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*117 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*83.4 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:06	TPH 8015M	
>C12-C28	**354**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:06	TPH 8015M	
>C28-C35	**54.2**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:06	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:06*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**408**	25.5	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 14:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**799**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 11:24	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C174

3C31005-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:42	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:42	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:42	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:42	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 18:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*82.7 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 18:42*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:30	TPH 8015M	
>C12-C28	**258**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:30	TPH 8015M	
>C28-C35	**38.4**	25.5	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.8 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**296**	25.5	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 14:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**276**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 12:26	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C175

3C31005-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:03	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:03	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:03	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:03	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*82.7 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:54	TPH 8015M	
>C12-C28	**153**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:54	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 14:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.4 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 14:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**153**	25.8	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 14:54	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**682**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 12:46	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C176

3C31005-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:23	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:23	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:23	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:23	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*79.5 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:23*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**63.4**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:19	TPH 8015M	
>C12-C28	**2500**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:19	TPH 8015M	
>C28-C35	**379**	25.8	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 15:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.9 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 15:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2940**	25.8	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 15:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1120**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 13:07	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C177

3C31005-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:44	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:44	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:44	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 19:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*81.7 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 19:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:43	TPH 8015M	
>C12-C28	**325**	26.3	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:43	TPH 8015M	
>C28-C35	**40.4**	26.3	mg/kg dry	1	P3D0412	04/04/23 15:00	04/07/23 15:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 15:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D0412*	*04/04/23 15:00*	*04/07/23 15:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**366**	26.3	mg/kg dry	1	[CALC]	04/04/23 15:00	04/07/23 15:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**369**	1.05	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 13:27	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C178

3C31005-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:05	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:05	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:05	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:05	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*83.2 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:05*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:05*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**42.3**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:19	TPH 8015M	
>C12-C28	**1500**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:19	TPH 8015M	
>C28-C35	**97.7**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 03:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 03:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1640**	25.5	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 03:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**386**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 13:48	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C179

3C31005-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:25	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:25	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:25	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:25	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.2 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*139 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:25*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**117**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:44	TPH 8015M	
>C12-C28	**4720**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:44	TPH 8015M	
>C28-C35	**408**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 03:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.4 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 03:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.6 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 03:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5250**	25.5	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 03:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**500**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 14:08	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C180

3C31005-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:46	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:46	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:46	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:46	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D0602	04/06/23 09:59	04/07/23 20:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*131 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:46*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.4 %*	*80-120*		*P3D0602*	*04/06/23 09:59*	*04/07/23 20:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:01	TPH 8015M	
>C12-C28	**470**	28.1	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:01	TPH 8015M	
>C28-C35	**63.0**	28.1	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.1 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.0 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**533**	28.1	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 05:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**913**	1.12	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 14:29	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C181

3C31005-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:27	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:27	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:27	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:27	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*125 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 20:27*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*84.3 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 20:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:27	TPH 8015M	
>C12-C28	**317**	27.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:27	TPH 8015M	
>C28-C35	**61.1**	27.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.4 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.2 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**378**	27.8	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 05:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1230**	1.11	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 14:49	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C182

3C31005-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:47	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:47	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:47	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:47	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 20:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*132 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 20:47*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*84.5 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 20:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:52	TPH 8015M	
>C12-C28	**353**	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:52	TPH 8015M	
>C28-C35	**55.1**	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 05:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.9 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 05:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**408**	28.7	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 05:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1350**	1.15	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 15:10	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C183

3C31005-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:07	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:07	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:07	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:07	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.7 %*		*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:07*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*130 %*		*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:07*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:18	TPH 8015M	
>C12-C28	**1040**	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:18	TPH 8015M	
>C28-C35	**282**	28.7	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*		*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 06:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.6 %*		*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 06:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1320**	28.7	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 06:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1930**	1.15	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 16:11	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C184

3C31005-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:27	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:27	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:27	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:27	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:27*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*81.1 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:45	TPH 8015M	
>C12-C28	**551**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:45	TPH 8015M	
>C28-C35	**181**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 06:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.0 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 06:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.6 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 06:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**732**	25.5	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 06:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1510**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 17:13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C185

3C31005-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:47	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:47	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:47	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:47	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1001	04/10/23 10:40	04/10/23 21:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*82.5 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:47*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*121 %*	*80-120*		*P3D1001*	*04/10/23 10:40*	*04/10/23 21:47*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:10	TPH 8015M	
>C12-C28	**211**	25.3	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:10	TPH 8015M	
>C28-C35	**51.8**	25.3	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.9 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 07:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.6 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 07:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**263**	25.3	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 07:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1030**	1.01	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 17:34	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C186

3C31005-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:32	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:32	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:32	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:32	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*88.6 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 00:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*144 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 00:32*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:35	TPH 8015M	
>C12-C28	**409**	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:35	TPH 8015M	
>C28-C35	**64.8**	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 07:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.2 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 07:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.1 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 07:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**474**	25.8	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 07:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**798**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 17:54	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C187

3C31005-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:53	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:53	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:53	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:53	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 00:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*145 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 00:53*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.6 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 00:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:01	TPH 8015M	
>C12-C28	**63.8**	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:01	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.4 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.0 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**63.8**	25.5	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 08:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**214**	1.02	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 18:15	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C188

3C31005-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:14	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:14	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:14	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:14	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.5 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*143 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:14*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:27	TPH 8015M	
>C12-C28	**328**	26.0	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:27	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.1 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**328**	26.0	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 08:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**407**	1.04	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 18:35	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C189

3C31005-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:35	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:35	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:35	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:35	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*150 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:35*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.7 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:53	TPH 8015M	
>C12-C28	**1130**	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:53	TPH 8015M	
>C28-C35	**97.8**	25.8	mg/kg dry	1	P3D0513	04/05/23 12:30	04/08/23 08:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.7 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*P3D0513*	*04/05/23 12:30*	*04/08/23 08:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1220**	25.8	mg/kg dry	1	[CALC]	04/05/23 12:30	04/08/23 08:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**435**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 18:56	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C190

3C31005-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:56	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:56	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:56	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:56	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 01:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*144 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:56*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*86.4 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 01:56*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**26.1**	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 12:38	TPH 8015M	
>C12-C28	**955**	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 12:38	TPH 8015M	
>C28-C35	**73.2**	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 12:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.0 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 12:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 12:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1050**	25.8	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 12:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**540**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 19:16	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C191

3C31005-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:18	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:18	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:18	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:18	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.7 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 02:18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*143 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 02:18*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**67.0**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:03	TPH 8015M	
>C12-C28	**1640**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:03	TPH 8015M	
>C28-C35	**68.3**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.8 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1770**	26.0	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 13:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**407**	1.04	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 19:37	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C192

3C31005-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:39	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:39	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:39	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:39	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 02:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*143 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 02:39*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.7 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 02:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:27	TPH 8015M	
>C12-C28	**627**	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:27	TPH 8015M	
>C28-C35	**76.1**	25.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.3 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.7 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**703**	25.8	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 13:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**570**	1.03	mg/kg dry	1	P3D0702	04/07/23 19:41	04/10/23 19:57	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C193

3C31005-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:00	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:00	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:00	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:00	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*146 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:00*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.5 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:52	TPH 8015M	
>C12-C28	**282**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:52	TPH 8015M	
>C28-C35	**40.6**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 13:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.0 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 13:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**323**	26.0	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 13:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**492**	1.04	mg/kg dry	1	P3D0802	04/08/23 19:48	04/11/23 18:50	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C194

3C31005-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:22	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:22	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:22	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:22	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*145 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:22*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.7 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:17	TPH 8015M	
>C12-C28	**147**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:17	TPH 8015M	
>C28-C35	**41.4**	26.0	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.4 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 14:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.2 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 14:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**189**	26.0	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 14:17	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1020**	1.04	mg/kg dry	1	P3D0802	04/08/23 19:48	04/11/23 19:33	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C195

3C31005-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:43	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:43	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:43	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:43	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 03:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*85.5 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*144 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 03:43*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:41	TPH 8015M	
>C12-C28	**66.6**	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:41	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 14:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.2 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 14:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.6 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 14:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**66.6**	26.6	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 14:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**796**	1.06	mg/kg dry	1	P3D0802	04/08/23 19:48	04/11/23 19:47	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C196

3C31005-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 04:47	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 04:47	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 04:47	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 04:47	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 04:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*142 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 04:47*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*84.8 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 04:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:06	TPH 8015M	
>C12-C28	**76.4**	27.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:06	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:06	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.4 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 15:06*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.4 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 15:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**76.4**	27.8	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 15:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**574**	1.11	mg/kg dry	1	P3D0802	04/08/23 19:48	04/11/23 20:01	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C197

3C31005-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 05:08	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 05:08	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 05:08	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 05:08	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D1006	04/10/23 15:24	04/11/23 05:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*84.5 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 05:08*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*143 %*	*80-120*		*P3D1006*	*04/10/23 15:24*	*04/11/23 05:08*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:31	TPH 8015M	
>C12-C28	**262**	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:31	TPH 8015M	
>C28-C35	**93.1**	26.6	mg/kg dry	1	P3D0514	04/05/23 13:00	04/08/23 15:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.7 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 15:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*79.5 %*	*70-130*		*P3D0514*	*04/05/23 13:00*	*04/08/23 15:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**355**	26.6	mg/kg dry	1	[CALC]	04/05/23 13:00	04/08/23 15:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**833**	1.06	mg/kg dry	1	P3D0802	04/08/23 19:48	04/11/23 20:16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D0511	04/05/23 11:25	04/05/23 12:37	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
Blank (P3C3117-BLK1)				Prepared: 03/31/23 Analyzed: 04/02/23						
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	*0.126*		"	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.2*	*80-120*			
LCS (P3C3117-BS1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0967	0.00100	"	0.100		96.7	80-120			
Ethylbenzene	0.0988	0.00100	"	0.100		98.8	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		84.9	80-120			
Xylene (o)	0.0915	0.00100	"	0.100		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*80-120*			
LCS Dup (P3C3117-BSD1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0969	0.00100	mg/kg	0.100		96.9	80-120	6.21	20	
Toluene	0.0897	0.00100	"	0.100		89.7	80-120	7.50	20	
Ethylbenzene	0.0915	0.00100	"	0.100		91.5	80-120	7.70	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120	5.14	20	
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120	7.88	20	
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*112*	*80-120*			
Calibration Blank (P3C3117-CCB1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.7*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
Calibration Blank (P3C3117-CCB2)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.7*	*80-120*			
Calibration Check (P3C3117-CCV1)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		85.2	80-120			
Xylene (o)	0.0953	0.00100	"	0.100		95.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*111*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Calibration Check (P3C3117-CCV2)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0939	0.00100	mg/kg	0.100		93.9	80-120			
Toluene	0.0851	0.00100	"	0.100		85.1	80-120			
Ethylbenzene	0.0804	0.00100	"	0.100		80.4	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.1	80-120			
Xylene (o)	0.0802	0.00100	"	0.100		80.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*75-125*			
Calibration Check (P3C3117-CCV3)				Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120			
Toluene	0.0969	0.00100	"	0.100		96.9	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.2	80-120			
Xylene (o)	0.0911	0.00100	"	0.100		91.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3C3117 - * DEFAULT PREP *** **										
Matrix Spike (P3C3117-MS1)	**Source: 3C30002-01**			Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0739	0.00108	mg/kg dry	0.108	ND	68.7	80-120			QM-05
Toluene	0.0599	0.00108	"	0.108	ND	55.7	80-120			QM-05
Ethylbenzene	0.0633	0.00108	"	0.108	ND	58.8	80-120			QM-05
Xylene (p/m)	0.110	0.00215	"	0.215	ND	51.1	80-120			QM-05
Xylene (o)	0.0578	0.00108	"	0.108	ND	53.8	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.129*		*95.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.148*		*"*	*0.129*		*115*	*80-120*			
Matrix Spike Dup (P3C3117-MSD1)	**Source: 3C30002-01**			Prepared: 03/31/23 Analyzed: 04/02/23						
Benzene	0.0753	0.00108	mg/kg dry	0.108	ND	70.0	80-120	1.82	20	QM-05
Toluene	0.0604	0.00108	"	0.108	ND	56.2	80-120	0.804	20	QM-05
Ethylbenzene	0.0637	0.00108	"	0.108	ND	59.2	80-120	0.661	20	QM-05
Xylene (p/m)	0.110	0.00215	"	0.215	ND	51.3	80-120	0.273	20	QM-05
Xylene (o)	0.0575	0.00108	"	0.108	ND	53.4	80-120	0.653	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.129*		*96.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.145*		*"*	*0.129*		*112*	*80-120*			
Batch P3D0301 - * DEFAULT PREP *** **										
Blank (P3D0301-BLK1)				Prepared & Analyzed: 04/03/23						
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	*0.109*		*"*	*0.120*		*91.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0301 - * DEFAULT PREP *** **										
LCS (P3D0301-BS1)				Prepared & Analyzed: 04/03/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.7	80-120			
Xylene (o)	0.0943	0.00100	"	0.100		94.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
LCS Dup (P3D0301-BSD1)				Prepared & Analyzed: 04/03/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120	6.23	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	9.33	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	9.43	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	80-120	9.32	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	8.96	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*107*	*80-120*			
Calibration Blank (P3D0301-CCB1)				Prepared & Analyzed: 04/03/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.360		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*88.8*	*80-120*			
Calibration Blank (P3D0301-CCB2)				Prepared & Analyzed: 04/03/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.360		"							
Xylene (p/m)	0.680		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0301 - * DEFAULT PREP *** **										
Calibration Check (P3D0301-CCV1)				Prepared & Analyzed: 04/03/23						
Benzene	0.0999	0.00100	mg/kg	0.100		99.9	80-120			
Toluene	0.0887	0.00100	"	0.100		88.7	80-120			
Ethylbenzene	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0869	0.00100	"	0.100		86.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*75-125*			
Calibration Check (P3D0301-CCV2)				Prepared & Analyzed: 04/03/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Calibration Check (P3D0301-CCV3)				Prepared & Analyzed: 04/03/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0949	0.00100	"	0.100		94.9	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*90.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.2*	*75-125*			
Matrix Spike (P3D0301-MS1)	**Source: 3C31004-04**			Prepared & Analyzed: 04/03/23						
Benzene	0.0636	0.00103	mg/kg dry	0.103	ND	61.7	80-120			QM-05
Toluene	0.0612	0.00103	"	0.103	ND	59.3	80-120			QM-05
Ethylbenzene	0.0590	0.00103	"	0.103	ND	57.2	80-120			QM-05
Xylene (p/m)	0.104	0.00206	"	0.206	ND	50.3	80-120			QM-05
Xylene (o)	0.0579	0.00103	"	0.103	ND	56.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.124*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.124*		*94.9*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0301 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D0301-MSD1)	**Source: 3C31004-04**			Prepared & Analyzed: 04/03/23						
Benzene	0.0659	0.00103	mg/kg dry	0.103	ND	63.9	80-120	3.49	20	QM-05
Toluene	0.0619	0.00103	"	0.103	ND	60.1	80-120	1.26	20	QM-05
Ethylbenzene	0.0592	0.00103	"	0.103	ND	57.4	80-120	0.314	20	QM-05
Xylene (p/m)	0.104	0.00206	"	0.206	ND	50.3	80-120	0.119	20	QM-05
Xylene (o)	0.0592	0.00103	"	0.103	ND	57.4	80-120	2.16	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.124*		*94.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.124*		*92.5*	*80-120*			
Batch P3D0401 - * DEFAULT PREP *** **										
Blank (P3D0401-BLK1)				Prepared & Analyzed: 04/04/23						
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	*0.118*		*"*	*0.120*		*98.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.9*	*80-120*			
LCS (P3D0401-BS1)				Prepared & Analyzed: 04/04/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.2	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0401 - * DEFAULT PREP *** **										
LCS Dup (P3D0401-BSD1)				Prepared & Analyzed: 04/04/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120	1.28	20	
Toluene	0.111	0.00100	"	0.100		111	80-120	3.03	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	5.09	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120	4.77	20	
Xylene (o)	0.107	0.00100	"	0.100		107	80-120	1.60	20	
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.120*		*114*	*80-120*			
Calibration Blank (P3D0401-CCB1)				Prepared & Analyzed: 04/04/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*80-120*			
Calibration Blank (P3D0401-CCB2)				Prepared & Analyzed: 04/04/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.290		"							
Xylene (p/m)	0.520		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Calibration Check (P3D0401-CCV1)				Prepared & Analyzed: 04/04/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0401 - * DEFAULT PREP *** **										
Calibration Check (P3D0401-CCV2)				Prepared & Analyzed: 04/04/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.103*		"	*0.120*		*86.0*	*75-125*			
Calibration Check (P3D0401-CCV3)				Prepared & Analyzed: 04/04/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*112*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.5*	*75-125*			
Matrix Spike (P3D0401-MS1)		**Source: 3C31004-24**		Prepared & Analyzed: 04/04/23						
Benzene	0.0778	0.00105	mg/kg dry	0.105	ND	73.9	80-120			QM-05
Toluene	0.0657	0.00105	"	0.105	ND	62.4	80-120			QM-05
Ethylbenzene	0.0599	0.00105	"	0.105	ND	56.9	80-120			QM-05
Xylene (p/m)	0.103	0.00211	"	0.211	ND	49.0	80-120			QM-05
Xylene (o)	0.0564	0.00105	"	0.105	ND	53.6	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.126*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.126*		*92.1*	*80-120*			
Matrix Spike Dup (P3D0401-MSD1)		**Source: 3C31004-24**		Prepared & Analyzed: 04/04/23						
Benzene	0.0920	0.00105	mg/kg dry	0.105	ND	87.4	80-120	16.6	20	
Toluene	0.0766	0.00105	"	0.105	ND	72.8	80-120	15.3	20	QM-05
Ethylbenzene	0.0691	0.00105	"	0.105	ND	65.6	80-120	14.3	20	QM-05
Xylene (p/m)	0.119	0.00211	"	0.211	ND	56.5	80-120	14.2	20	QM-05
Xylene (o)	0.0657	0.00105	"	0.105	ND	62.4	80-120	15.1	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.126*		*92.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.126*		*107*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0403 - * DEFAULT PREP *** **										
Blank (P3D0403-BLK1)				Prepared & Analyzed: 04/04/23						
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	*0.137*		"	*0.120*		*114*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.4*	*80-120*			
LCS (P3D0403-BS1)				Prepared & Analyzed: 04/04/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.120*		*116*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.5*	*80-120*			
LCS Dup (P3D0403-BSD1)				Prepared & Analyzed: 04/04/23						
Benzene	0.0990	0.00100	mg/kg	0.100		99.0	80-120	14.1	20	
Toluene	0.0929	0.00100	"	0.100		92.9	80-120	14.4	20	
Ethylbenzene	0.0944	0.00100	"	0.100		94.4	80-120	14.5	20	
Xylene (p/m)	0.166	0.00200	"	0.200		83.2	80-120	14.2	20	
Xylene (o)	0.0883	0.00100	"	0.100		88.3	80-120	14.3	20	
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.120*		*115*	*80-120*			
Calibration Blank (P3D0403-CCB1)				Prepared & Analyzed: 04/04/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.280		"							
Xylene (p/m)	0.420		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0403 - * DEFAULT PREP *** **										
Calibration Blank (P3D0403-CCB2)				Prepared: 04/04/23 Analyzed: 04/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.340		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.142*		"	*0.120*		*119*	*80-120*			
Calibration Check (P3D0403-CCV1)				Prepared & Analyzed: 04/04/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*112*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.5*	*75-125*			
Calibration Check (P3D0403-CCV2)				Prepared: 04/04/23 Analyzed: 04/05/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.9	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*90.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.147*		"	*0.120*		*123*	*75-125*			
Calibration Check (P3D0403-CCV3)				Prepared: 04/04/23 Analyzed: 04/05/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*91.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.149*		"	*0.120*		*124*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0403 - * DEFAULT PREP *** **										
Matrix Spike (P3D0403-MS1)	**Source: 3C31004-39**			Prepared: 04/04/23 Analyzed: 04/05/23						
Benzene	0.0836	0.00104	mg/kg dry	0.104	ND	80.3	80-120			
Toluene	0.0753	0.00104	"	0.104	ND	72.3	80-120			QM-05
Ethylbenzene	0.0710	0.00104	"	0.104	ND	68.2	80-120			QM-05
Xylene (p/m)	0.109	0.00208	"	0.208	ND	52.5	80-120			QM-05
Xylene (o)	0.0618	0.00104	"	0.104	ND	59.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.160*		"	*0.125*		*128*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.125*		*92.9*	*80-120*			
Matrix Spike Dup (P3D0403-MSD1)	**Source: 3C31004-39**			Prepared: 04/04/23 Analyzed: 04/05/23						
Benzene	0.0767	0.00104	mg/kg dry	0.104	ND	73.6	80-120	8.69	20	QM-05
Toluene	0.0683	0.00104	"	0.104	ND	65.5	80-120	9.84	20	QM-05
Ethylbenzene	0.0661	0.00104	"	0.104	ND	63.4	80-120	7.20	20	QM-05
Xylene (p/m)	0.0912	0.00208	"	0.208	ND	43.8	80-120	18.2	20	QM-05
Xylene (o)	0.0571	0.00104	"	0.104	ND	54.8	80-120	7.85	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.125*		*93.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.161*		"	*0.125*		*129*	*80-120*			*S-GC*
Batch P3D0506 - * DEFAULT PREP *** **										
Blank (P3D0506-BLK1)				Prepared & Analyzed: 04/05/23						
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	*0.119*		"	*0.120*		*99.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.104*		"	*0.120*		*86.3*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0506 - * DEFAULT PREP *** **										
LCS (P3D0506-BS1)				Prepared & Analyzed: 04/05/23						
Benzene	0.0880	0.00100	mg/kg	0.100		88.0	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.2*	*80-120*			
LCS Dup (P3D0506-BSD1)				Prepared & Analyzed: 04/05/23						
Benzene	0.0864	0.00100	mg/kg	0.100		86.4	80-120	1.89	20	
Toluene	0.0966	0.00100	"	0.100		96.6	80-120	2.49	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120	3.05	20	
Xylene (p/m)	0.189	0.00200	"	0.200		94.3	80-120	2.95	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	3.16	20	
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Calibration Blank (P3D0506-CCB1)				Prepared & Analyzed: 04/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.101*		"	*0.120*		*84.4*	*80-120*			
Calibration Blank (P3D0506-CCB2)				Prepared & Analyzed: 04/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.104*		"	*0.120*		*86.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0506 - * DEFAULT PREP *** **										
Calibration Check (P3D0506-CCV1)				Prepared & Analyzed: 04/05/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.9	80-120			
Xylene (o)	0.0948	0.00100	"	0.100		94.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.144*		"	*0.120*		*120*	*75-125*			
Calibration Check (P3D0506-CCV2)				Prepared & Analyzed: 04/05/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*99.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.101*		"	*0.120*		*84.3*	*75-125*			
Calibration Check (P3D0506-CCV3)				Prepared & Analyzed: 04/05/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.148*		"	*0.120*		*123*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.2*	*75-125*			
Matrix Spike (P3D0506-MS1)		**Source: 3C31004-59**		Prepared & Analyzed: 04/05/23						
Benzene	0.0534	0.00104	mg/kg dry	0.104	ND	51.3	80-120			QM-05
Toluene	0.0606	0.00104	"	0.104	ND	58.2	80-120			QM-05
Ethylbenzene	0.0575	0.00104	"	0.104	ND	55.2	80-120			QM-05
Xylene (p/m)	0.100	0.00208	"	0.208	ND	48.0	80-120			QM-05
Xylene (o)	0.0535	0.00104	"	0.104	ND	51.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.125*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.156*		"	*0.125*		*124*	*80-120*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0506 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D0506-MSD1)	**Source: 3C31004-59**			Prepared & Analyzed: 04/05/23						
Benzene	0.0631	0.00104	mg/kg dry	0.104	ND	60.6	80-120	16.6	20	QM-05
Toluene	0.0731	0.00104	"	0.104	ND	70.2	80-120	18.8	20	QM-05
Ethylbenzene	0.0717	0.00104	"	0.104	ND	68.8	80-120	21.8	20	QM-05
Xylene (p/m)	0.125	0.00208	"	0.208	ND	59.9	80-120	22.1	20	QM-05
Xylene (o)	0.0657	0.00104	"	0.104	ND	63.1	80-120	20.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.159*		*"*	*0.125*		*128*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.125*		*92.8*	*80-120*			
Batch P3D0507 - * DEFAULT PREP *** **										
Blank (P3D0507-BLK1)				Prepared & Analyzed: 04/05/23						
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	*0.106*		*"*	*0.120*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.145*		*"*	*0.120*		*121*	*80-120*			*S-GC*
LCS (P3D0507-BS1)				Prepared & Analyzed: 04/05/23						
Benzene	0.0872	0.00100	mg/kg	0.100		87.2	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*90.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.153*		*"*	*0.120*		*127*	*80-120*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0507 - * DEFAULT PREP *** **										
LCS Dup (P3D0507-BSD1)				Prepared & Analyzed: 04/05/23						
Benzene	0.0807	0.00100	mg/kg	0.100		80.7	80-120	7.64	20	
Toluene	0.0916	0.00100	"	0.100		91.6	80-120	16.6	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	11.8	20	
Xylene (p/m)	0.181	0.00200	"	0.200		90.3	80-120	15.8	20	
Xylene (o)	0.0969	0.00100	"	0.100		96.9	80-120	15.7	20	
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.156*		"	*0.120*		*130*	*80-120*			*S-GC*
Calibration Blank (P3D0507-CCB1)				Prepared & Analyzed: 04/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.142*		"	*0.120*		*118*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.0*	*80-120*			
Calibration Blank (P3D0507-CCB2)				Prepared: 04/05/23 Analyzed: 04/06/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.120*		*117*	*80-120*			
Calibration Check (P3D0507-CCV1)				Prepared & Analyzed: 04/05/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.148*		"	*0.120*		*123*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.2*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0507 - * DEFAULT PREP *** **										
Calibration Check (P3D0507-CCV2)				Prepared: 04/05/23 Analyzed: 04/06/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.7	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.144*		"	*0.120*		*120*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.105*		"	*0.120*		*87.1*	*75-125*			
Calibration Check (P3D0507-CCV3)				Prepared: 04/05/23 Analyzed: 04/06/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.7	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.153*		"	*0.120*		*128*	*75-125*			*S-GC*
Matrix Spike (P3D0507-MS1)		**Source: 3C31004-79**		Prepared: 04/05/23 Analyzed: 04/06/23						
Benzene	0.0510	0.00102	mg/kg dry	0.102	ND	50.0	80-120			QM-05
Toluene	0.0427	0.00102	"	0.102	ND	41.9	80-120			QM-05
Ethylbenzene	0.0297	0.00102	"	0.102	ND	29.1	80-120			QM-05
Xylene (p/m)	0.0434	0.00204	"	0.204	0.00871	17.0	80-120			QM-05
Xylene (o)	0.0254	0.00102	"	0.102	ND	24.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.122*		*93.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.155*		"	*0.122*		*127*	*80-120*			*S-GC*
Matrix Spike Dup (P3D0507-MSD1)		**Source: 3C31004-79**		Prepared: 04/05/23 Analyzed: 04/06/23						
Benzene	0.0234	0.00102	mg/kg dry	0.102	ND	23.0	80-120	74.1	20	QM-05
Toluene	0.0212	0.00102	"	0.102	ND	20.8	80-120	67.2	20	QM-05
Ethylbenzene	0.0167	0.00102	"	0.102	ND	16.3	80-120	56.0	20	QM-05
Xylene (p/m)	0.0230	0.00204	"	0.204	0.00871	7.00	80-120	83.3	20	QM-05
Xylene (o)	0.0162	0.00102	"	0.102	ND	15.9	80-120	44.0	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.165*		"	*0.122*		*135*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.122*		*93.1*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0602 - * DEFAULT PREP *** **										
Blank (P3D0602-BLK1)				Prepared: 04/06/23 Analyzed: 04/07/23						
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	*0.0974*		"	*0.120*		*81.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
LCS (P3D0602-BS1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.6	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0978*		"	*0.120*		*81.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.2*	*80-120*			
LCS Dup (P3D0602-BSD1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120	2.98	20	
Toluene	0.101	0.00100	"	0.100		101	80-120	4.33	20	
Ethylbenzene	0.0976	0.00100	"	0.100		97.6	80-120	6.02	20	
Xylene (p/m)	0.171	0.00200	"	0.200		85.5	80-120	5.89	20	
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120	4.99	20	
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.120*		*90.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0985*		"	*0.120*		*82.1*	*80-120*			
Calibration Blank (P3D0602-CCB1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.101*		"	*0.120*		*83.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.120*		*116*	*80-120*			

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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
Batch P3D0602 - * DEFAULT PREP *** **										
Calibration Blank (P3D0602-CCB2)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0972*		"	*0.120*		*81.0*	*80-120*			
Calibration Check (P3D0602-CCV1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.7	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0974*		"	*0.120*		*81.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.120*		*117*	*75-125*			
Calibration Check (P3D0602-CCV2)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		89.9	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.120*		*117*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.102*		"	*0.120*		*85.4*	*75-125*			
Calibration Check (P3D0602-CCV3)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	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)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.156*		"	*0.120*		*130*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.103*		"	*0.120*		*86.1*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D0602 - * DEFAULT PREP *** **										
Matrix Spike (P3D0602-MS1)	**Source: 3D06001-01**			Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.124	0.00103	mg/kg dry	0.103	ND	120	80-120			
Toluene	0.118	0.00103	"	0.103	ND	115	80-120			
Ethylbenzene	0.118	0.00103	"	0.103	ND	115	80-120			
Xylene (p/m)	0.204	0.00206	"	0.206	ND	98.9	80-120			
Xylene (o)	0.108	0.00103	"	0.103	ND	105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.169*		"	*0.124*		*136*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.124*		*88.2*	*80-120*			
Matrix Spike Dup (P3D0602-MSD1)	**Source: 3D06001-01**			Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.121	0.00103	mg/kg dry	0.103	ND	118	80-120	2.03	20	
Toluene	0.116	0.00103	"	0.103	ND	113	80-120	1.77	20	
Ethylbenzene	0.117	0.00103	"	0.103	ND	114	80-120	0.787	20	
Xylene (p/m)	0.202	0.00206	"	0.206	ND	98.1	80-120	0.736	20	
Xylene (o)	0.106	0.00103	"	0.103	ND	103	80-120	2.32	20	
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.124*		*87.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.164*		"	*0.124*		*133*	*80-120*			*S-GC*
Batch P3D1001 - * DEFAULT PREP *** **										
Blank (P3D1001-BLK1)				Prepared & Analyzed: 04/10/23						
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	*0.143*		"	*0.120*		*119*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.102*		"	*0.120*		*84.7*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1001 - * DEFAULT PREP *** **										
LCS (P3D1001-BS1)				Prepared & Analyzed: 04/10/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		103	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.153*		*"*	*0.120*		*128*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0994*		*"*	*0.120*		*82.8*	*80-120*			
LCS Dup (P3D1001-BSD1)				Prepared & Analyzed: 04/10/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120	4.26	20	
Toluene	0.106	0.00100	"	0.100		106	80-120	6.35	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	6.10	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	80-120	5.93	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	6.72	20	
Surrogate: 1,4-Difluorobenzene	*0.0993*		*"*	*0.120*		*82.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.155*		*"*	*0.120*		*129*	*80-120*			*S-GC*
Calibration Blank (P3D1001-CCB1)				Prepared & Analyzed: 04/10/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.210		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.146*		*"*	*0.120*		*122*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*84.1*	*80-120*			
Calibration Blank (P3D1001-CCB2)				Prepared & Analyzed: 04/10/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.150*		*"*	*0.120*		*125*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0979*		*"*	*0.120*		*81.6*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1001 - * DEFAULT PREP *** **										
Calibration Blank (P3D1001-CCB3)				Prepared & Analyzed: 04/10/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.0989*		*"*	*0.120*		*82.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.150*		*"*	*0.120*		*125*	*80-120*			*S-GC*
Calibration Check (P3D1001-CCV1)				Prepared & Analyzed: 04/10/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.5	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.156*		*"*	*0.120*		*130*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.6*	*75-125*			
Calibration Check (P3D1001-CCV2)				Prepared & Analyzed: 04/10/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*83.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.139*		*"*	*0.120*		*116*	*75-125*			
Calibration Check (P3D1001-CCV3)				Prepared & Analyzed: 04/10/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0973*		*"*	*0.120*		*81.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.139*		*"*	*0.120*		*116*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1001 - * DEFAULT PREP *** **										
Matrix Spike (P3D1001-MS1)	**Source: 3D10001-01**			Prepared & Analyzed: 04/10/23						
Benzene	0.120	0.00103	mg/kg dry	0.103	ND	117	80-120			
Toluene	0.103	0.00103	"	0.103	ND	99.6	80-120			
Ethylbenzene	0.0991	0.00103	"	0.103	ND	96.1	80-120			
Xylene (p/m)	0.174	0.00206	"	0.206	ND	84.5	80-120			
Xylene (o)	0.0948	0.00103	"	0.103	ND	92.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.150*		"	*0.124*		*121*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.105*		"	*0.124*		*84.6*	*80-120*			
Matrix Spike Dup (P3D1001-MSD1)	**Source: 3D10001-01**			Prepared & Analyzed: 04/10/23						
Benzene	0.120	0.00103	mg/kg dry	0.103	ND	117	80-120	0.128	20	
Toluene	0.104	0.00103	"	0.103	ND	101	80-120	1.07	20	
Ethylbenzene	0.0996	0.00103	"	0.103	ND	96.6	80-120	0.488	20	
Xylene (p/m)	0.174	0.00206	"	0.206	ND	84.5	80-120	0.0769	20	S-GC
Xylene (o)	0.0951	0.00103	"	0.103	ND	92.2	80-120	0.261	20	
Surrogate: 1,4-Difluorobenzene	*0.105*		"	*0.124*		*84.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.150*		"	*0.124*		*121*	*80-120*			*S-GC*
Batch P3D1006 - * DEFAULT PREP *** **										
Blank (P3D1006-BLK1)				Prepared: 04/10/23 Analyzed: 04/11/23						
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	*0.0994*		"	*0.120*		*82.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.156*		"	*0.120*		*130*	*80-120*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1006 - * DEFAULT PREP *** **										
LCS (P3D1006-BS1)				Prepared & Analyzed: 04/10/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.151*		"	*0.120*		*126*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0995*		"	*0.120*		*82.9*	*80-120*			
LCS Dup (P3D1006-BSD1)				Prepared & Analyzed: 04/10/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120	1.01	20	
Toluene	0.111	0.00100	"	0.100		111	80-120	3.25	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	3.43	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120	3.58	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	4.48	20	
Surrogate: 1,4-Difluorobenzene	*0.103*		"	*0.120*		*85.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.161*		"	*0.120*		*135*	*80-120*			*S-GC*
Calibration Blank (P3D1006-CCB1)				Prepared & Analyzed: 04/10/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.150*		"	*0.120*		*125*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0989*		"	*0.120*		*82.4*	*80-120*			
Calibration Blank (P3D1006-CCB2)				Prepared: 04/10/23 Analyzed: 04/11/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.0995*		"	*0.120*		*82.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.167*		"	*0.120*		*139*	*80-120*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1006 - * DEFAULT PREP *** **										
Calibration Check (P3D1006-CCV1)				Prepared & Analyzed: 04/10/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.120*		*116*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0973*		"	*0.120*		*81.1*	*75-125*			
Calibration Check (P3D1006-CCV2)				Prepared: 04/10/23 Analyzed: 04/11/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		106	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0975*		"	*0.120*		*81.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.163*		"	*0.120*		*136*	*75-125*			*S-GC*
Calibration Check (P3D1006-CCV3)				Prepared: 04/10/23 Analyzed: 04/11/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0996*		"	*0.120*		*83.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.162*		"	*0.120*		*135*	*75-125*			*S-GC*
Matrix Spike (P3D1006-MS1)		**Source: 3C31005-23**		Prepared: 04/10/23 Analyzed: 04/11/23						
Benzene	0.0990	0.00103	mg/kg dry	0.103	ND	96.0	80-120			
Toluene	0.0809	0.00103	"	0.103	ND	78.4	80-120			
Ethylbenzene	0.0592	0.00103	"	0.103	ND	57.4	80-120			
Xylene (p/m)	0.0594	0.00206	"	0.206	ND	28.8	80-120			
Xylene (o)	0.0605	0.00103	"	0.103	ND	58.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.182*		"	*0.124*		*147*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.124*		*86.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3D1006 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D1006-MSD1)	**Source: 3C31005-23**			Prepared: 04/10/23 Analyzed: 04/11/23						
Benzene	0.108	0.00103	mg/kg dry	0.103	ND	105	80-120	8.57	20	
Toluene	0.0914	0.00103	"	0.103	ND	88.6	80-120	12.2	20	
Ethylbenzene	0.0709	0.00103	"	0.103	ND	68.7	80-120	17.9	20	
Xylene (p/m)	0.0863	0.00206	"	0.206	ND	41.9	80-120	37.0	20	
Xylene (o)	0.0717	0.00103	"	0.103	ND	69.5	80-120	16.9	20	
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.124*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.185*		*"*	*0.124*		*150*	*80-120*			*S-GC*

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0406 - TX 1005										
Blank (P3D0406-BLK1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*98.0*		"	*100*		*98.0*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		"	*50.0*		*112*	*70-130*			
LCS (P3D0406-BS1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	775	25.0	mg/kg	1000		77.5	75-125			
>C12-C28	998	25.0	"	1000		99.8	75-125			
Surrogate: 1-Chlorooctane	*89.9*		"	*100*		*89.9*	*70-130*			
Surrogate: o-Terphenyl	*58.7*		"	*50.0*		*117*	*70-130*			
LCS Dup (P3D0406-BSD1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	833	25.0	mg/kg	1000		83.3	75-125	7.24	20	
>C12-C28	1110	25.0	"	1000		111	75-125	11.1	20	
Surrogate: 1-Chlorooctane	*101*		"	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*54.9*		"	*50.0*		*110*	*70-130*			
Calibration Check (P3D0406-CCV1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	494	25.0	mg/kg	500		98.9	85-115			
>C12-C28	498	25.0	"	500		99.7	85-115			
Surrogate: 1-Chlorooctane	*110*		"	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*52.4*		"	*50.0*		*105*	*70-130*			
Calibration Check (P3D0406-CCV2)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	529	25.0	mg/kg	500		106	85-115			
>C12-C28	571	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*117*		"	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		"	*50.0*		*107*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0406 - TX 1005										
Calibration Check (P3D0406-CCV3)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	527	25.0	mg/kg	500		105	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*54.1*		*"*	*50.0*		*108*	*70-130*			
Duplicate (P3D0406-DUP1)	**Source: 3C31001-03**			Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	ND	125	mg/kg dry						20	
>C12-C28	2660	125	"					200	20	S-GC
Surrogate: 1-Chlorooctane	*87.6*		*"*	*100*		*87.6*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		*"*	*50.0*		*101*	*70-130*			
Batch P3D0407 - TX 1005										
Blank (P3D0407-BLK1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*57.1*		*"*	*50.0*		*114*	*70-130*			
LCS (P3D0407-BS1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	755	25.0	mg/kg	1000		75.5	75-125			
>C12-C28	951	25.0	"	1000		95.1	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*65.0*		*"*	*50.0*		*130*	*70-130*			
LCS Dup (P3D0407-BSD1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	756	25.0	mg/kg	1000		75.6	75-125	0.134	20	
>C12-C28	970	25.0	"	1000		97.0	75-125	1.96	20	
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*56.6*		*"*	*50.0*		*113*	*70-130*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0407 - TX 1005										
Calibration Check (P3D0407-CCV1)				Prepared: 04/04/23 Analyzed: 04/05/23						
C6-C12	498	25.0	mg/kg	500		99.7	85-115			
>C12-C28	509	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*61.1*		*"*	*50.0*		*122*	*70-130*			
Calibration Check (P3D0407-CCV2)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	498	25.0	mg/kg	500		99.7	85-115			
>C12-C28	527	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*57.1*		*"*	*50.0*		*114*	*70-130*			
Calibration Check (P3D0407-CCV3)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	507	25.0	mg/kg	500		101	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*61.9*		*"*	*50.0*		*124*	*70-130*			
Matrix Spike (P3D0407-MS1)		**Source: 3C31004-34**		Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	678	26.3	mg/kg dry	1050	11.7	63.3	75-125			QM-05
>C12-C28	861	26.3	"	1050	57.3	76.4	75-125			
Surrogate: 1-Chlorooctane	*87.4*		*"*	*105*		*83.0*	*70-130*			
Surrogate: o-Terphenyl	*51.3*		*"*	*52.6*		*97.5*	*70-130*			
Matrix Spike Dup (P3D0407-MSD1)		**Source: 3C31004-34**		Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	679	26.3	mg/kg dry	1050	11.7	63.4	75-125	0.115	20	QM-05
>C12-C28	856	26.3	"	1050	57.3	75.9	75-125	0.678	20	
Surrogate: 1-Chlorooctane	*87.6*		*"*	*105*		*83.2*	*70-130*			
Surrogate: o-Terphenyl	*53.2*		*"*	*52.6*		*101*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0408 - TX 1005										
Blank (P3D0408-BLK1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		*"*	*50.0*		*116*	*70-130*			
LCS (P3D0408-BS1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	751	25.0	mg/kg	1000		75.1	75-125			
>C12-C28	980	25.0	"	1000		98.0	75-125			
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*64.1*		*"*	*50.0*		*128*	*70-130*			
LCS Dup (P3D0408-BSD1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	785	25.0	mg/kg	1000		78.5	75-125	4.40	20	
>C12-C28	976	25.0	"	1000		97.6	75-125	0.371	20	
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*56.6*		*"*	*50.0*		*113*	*70-130*			
Calibration Blank (P3D0408-CCB1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	7.70		mg/kg							
>C12-C28	10.5		"							
Surrogate: 1-Chlorooctane	*103*		*"*	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*55.9*		*"*	*50.0*		*112*	*70-130*			
Calibration Blank (P3D0408-CCB2)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	6.90		mg/kg							
>C12-C28	10.4		"							
Surrogate: 1-Chlorooctane	*103*		*"*	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*56.1*		*"*	*50.0*		*112*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0408 - TX 1005										
Calibration Check (P3D0408-CCV1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	501	25.0	mg/kg	500		100	85-115			
>C12-C28	541	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*61.1*		*"*	*50.0*		*122*	*70-130*			
Calibration Check (P3D0408-CCV2)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	480	25.0	mg/kg	500		95.9	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*129*		*"*	*100*		*129*	*70-130*			
Surrogate: o-Terphenyl	*58.4*		*"*	*50.0*		*117*	*70-130*			
Matrix Spike (P3D0408-MS1)		**Source: 3C31004-54**		Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	668	26.3	mg/kg dry	1050	ND	63.5	75-125			
>C12-C28	910	26.3	"	1050	21.8	84.4	75-125			
Surrogate: 1-Chlorooctane	*117*		*"*	*105*		*111*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		*"*	*52.6*		*106*	*70-130*			
Matrix Spike Dup (P3D0408-MSD1)		**Source: 3C31004-54**		Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	654	26.3	mg/kg dry	1050	ND	62.1	75-125	2.16	20	
>C12-C28	900	26.3	"	1050	21.8	83.4	75-125	1.13	20	
Surrogate: 1-Chlorooctane	*115*		*"*	*105*		*109*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		*"*	*52.6*		*88.8*	*70-130*			
Batch P3D0409 - TX 1005										
Blank (P3D0409-BLK1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*59.7*		*"*	*50.0*		*119*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0409 - TX 1005										
LCS (P3D0409-BS1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	767	25.0	mg/kg	1000		76.7	75-125			
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*109*		"	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*57.5*		"	*50.0*		*115*	*70-130*			
LCS Dup (P3D0409-BSD1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	757	25.0	mg/kg	1000		75.7	75-125	1.35	20	
>C12-C28	1010	25.0	"	1000		101	75-125	0.799	20	
Surrogate: 1-Chlorooctane	*112*		"	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*58.9*		"	*50.0*		*118*	*70-130*			
Calibration Check (P3D0409-CCV1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	506	25.0	mg/kg	500		101	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*110*		"	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*62.1*		"	*50.0*		*124*	*70-130*			
Calibration Check (P3D0409-CCV2)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	513	25.0	mg/kg	500		103	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*111*		"	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*63.1*		"	*50.0*		*126*	*70-130*			
Matrix Spike (P3D0409-MS1)		**Source: 3C31004-74**		Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	679	26.6	mg/kg dry	1060	ND	63.8	75-125			QM-05
>C12-C28	1040	26.6	"	1060	307	68.6	75-125			QM-05
Surrogate: 1-Chlorooctane	*110*		"	*106*		*103*	*70-130*			
Surrogate: o-Terphenyl	*43.6*		"	*53.2*		*82.0*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0409 - TX 1005										
Matrix Spike Dup (P3D0409-MSD1)	**Source: 3C31004-74**			Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	685	26.6	mg/kg dry	1060	ND	64.4	75-125	0.912	20	QM-05
>C12-C28	1080	26.6	"	1060	307	72.2	75-125	5.19	20	QM-05
Surrogate: 1-Chlorooctane	*113*		*"*	*106*		*106*	*70-130*			
Surrogate: o-Terphenyl	*45.0*		*"*	*53.2*		*84.7*	*70-130*			
Batch P3D0410 - TX 1005										
Blank (P3D0410-BLK1)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*94.4*		*"*	*100*		*94.4*	*70-130*			
Surrogate: o-Terphenyl	*52.1*		*"*	*50.0*		*104*	*70-130*			
LCS (P3D0410-BS1)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	771	25.0	mg/kg	1000		77.1	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*59.6*		*"*	*50.0*		*119*	*70-130*			
LCS Dup (P3D0410-BSD1)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	813	25.0	mg/kg	1000		81.3	75-125	5.22	20	
>C12-C28	1080	25.0	"	1000		108	75-125	5.14	20	
Surrogate: 1-Chlorooctane	*125*		*"*	*100*		*125*	*70-130*			
Surrogate: o-Terphenyl	*61.3*		*"*	*50.0*		*123*	*70-130*			
Calibration Check (P3D0410-CCV1)				Prepared: 04/04/23 Analyzed: 04/06/23						
C6-C12	518	25.0	mg/kg	500		104	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*56.7*		*"*	*50.0*		*113*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0410 - TX 1005										
Calibration Check (P3D0410-CCV2)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	520	25.0	mg/kg	500		104	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	*117*		*"*	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*57.8*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3D0410-MS1)		**Source: 3C31005-04**		Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	714	25.5	mg/kg dry	1020	14.6	68.5	75-125			QM-05
>C12-C28	999	25.5	"	1020	232	75.2	75-125			
Surrogate: 1-Chlorooctane	*100*		*"*	*102*		*98.1*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		*"*	*51.0*		*91.3*	*70-130*			
Matrix Spike Dup (P3D0410-MSD1)		**Source: 3C31005-04**		Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	695	25.5	mg/kg dry	1020	14.6	66.7	75-125	2.68	20	QM-05
>C12-C28	986	25.5	"	1020	232	74.0	75-125	1.62	20	QM-05
Surrogate: 1-Chlorooctane	*98.7*		*"*	*102*		*96.8*	*70-130*			
Surrogate: o-Terphenyl	*41.6*		*"*	*51.0*		*81.5*	*70-130*			
Batch P3D0412 - TX 1005										
Blank (P3D0412-BLK1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*96.1*		*"*	*100*		*96.1*	*70-130*			
Surrogate: o-Terphenyl	*53.6*		*"*	*50.0*		*107*	*70-130*			
LCS (P3D0412-BS1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	816	25.0	mg/kg	1000		81.6	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	*124*		*"*	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		*"*	*50.0*		*104*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0412 - TX 1005										
LCS Dup (P3D0412-BSD1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	812	25.0	mg/kg	1000		81.2	75-125	0.532	20	
>C12-C28	1070	25.0	"	1000		107	75-125	2.32	20	
Surrogate: 1-Chlorooctane	*124*		"	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*62.4*		"	*50.0*		*125*	*70-130*			
Calibration Check (P3D0412-CCV1)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	542	25.0	mg/kg	500		108	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*56.1*		"	*50.0*		*112*	*70-130*			
Calibration Check (P3D0412-CCV2)				Prepared: 04/04/23 Analyzed: 04/07/23						
C6-C12	511	25.0	mg/kg	500		102	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*114*		"	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*53.8*		"	*50.0*		*108*	*70-130*			
Batch P3D0513 - TX 1005										
Blank (P3D0513-BLK1)				Prepared: 04/05/23 Analyzed: 04/07/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*84.6*		"	*100*		*84.6*	*70-130*			
Surrogate: o-Terphenyl	*46.2*		"	*50.0*		*92.4*	*70-130*			
LCS (P3D0513-BS1)				Prepared: 04/05/23 Analyzed: 04/07/23						
C6-C12	802	25.0	mg/kg	1000		80.2	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*112*		"	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*56.2*		"	*50.0*		*112*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0513 - TX 1005										
LCS Dup (P3D0513-BSD1)				Prepared: 04/05/23 Analyzed: 04/07/23						
C6-C12	785	25.0	mg/kg	1000		78.5	75-125	2.06	20	
>C12-C28	1040	25.0	"	1000		104	75-125	1.70	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*52.5*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (P3D0513-CCV1)				Prepared: 04/05/23 Analyzed: 04/07/23						
C6-C12	499	25.0	mg/kg	500		99.8	85-115			
>C12-C28	526	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		*"*	*50.0*		*99.2*	*70-130*			
Calibration Check (P3D0513-CCV2)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	471	25.0	mg/kg	500		94.1	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	*99.9*		*"*	*100*		*99.9*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.5*	*70-130*			
Matrix Spike (P3D0513-MS1)		**Source: 3C31005-26**		Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	781	25.8	mg/kg dry	1030	25.5	73.3	75-125			QM-05
>C12-C28	2030	25.8	"	1030	1130	87.6	75-125			
Surrogate: 1-Chlorooctane	*102*		*"*	*103*		*99.3*	*70-130*			
Surrogate: o-Terphenyl	*37.9*		*"*	*51.5*		*73.5*	*70-130*			
Matrix Spike Dup (P3D0513-MSD1)		**Source: 3C31005-26**		Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	812	25.8	mg/kg dry	1030	25.5	76.3	75-125	3.93	20	
>C12-C28	2120	25.8	"	1030	1130	96.0	75-125	9.18	20	
Surrogate: 1-Chlorooctane	*108*		*"*	*103*		*104*	*70-130*			
Surrogate: o-Terphenyl	*40.0*		*"*	*51.5*		*77.5*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0514 - TX 1005										
Blank (P3D0514-BLK1)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*85.7*		"	*100*		*85.7*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		"	*50.0*		*94.0*	*70-130*			
LCS (P3D0514-BS1)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	816	25.0	mg/kg	1000		81.6	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	*114*		"	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*47.5*		"	*50.0*		*95.0*	*70-130*			
LCS Dup (P3D0514-BSD1)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	821	25.0	mg/kg	1000		82.1	75-125	0.580	20	
>C12-C28	1110	25.0	"	1000		111	75-125	2.07	20	
Surrogate: 1-Chlorooctane	*115*		"	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*47.9*		"	*50.0*		*95.8*	*70-130*			
Calibration Check (P3D0514-CCV1)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	513	25.0	mg/kg	500		103	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*106*		"	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*47.9*		"	*50.0*		*95.8*	*70-130*			
Calibration Check (P3D0514-CCV2)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	494	25.0	mg/kg	500		98.9	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*104*		"	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		"	*50.0*		*97.3*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0514 - TX 1005										
Calibration Check (P3D0514-CCV3)				Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	502	25.0	mg/kg	500		100	85-115			
>C12-C28	536	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Matrix Spike (P3D0514-MS1)		**Source: 3D01003-12**		Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	853	29.1	mg/kg dry	1160	ND	73.4	75-125			QM-05
>C12-C28	1280	29.1	"	1160	400	75.9	75-125			
Surrogate: 1-Chlorooctane	*115*		*"*	*116*		*98.6*	*70-130*			
Surrogate: o-Terphenyl	*61.6*		*"*	*58.1*		*106*	*70-130*			
Matrix Spike Dup (P3D0514-MSD1)		**Source: 3D01003-12**		Prepared: 04/05/23 Analyzed: 04/08/23						
C6-C12	807	29.1	mg/kg dry	1160	ND	69.4	75-125	5.55	20	QM-05
>C12-C28	1200	29.1	"	1160	400	68.6	75-125	10.1	20	QM-05
Surrogate: 1-Chlorooctane	*109*		*"*	*116*		*93.5*	*70-130*			
Surrogate: o-Terphenyl	*61.4*		*"*	*58.1*		*106*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0202 - * DEFAULT PREP *** **										
Blank (P3D0202-BLK1)				Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	ND	0.1	%							
Duplicate (P3D0202-DUP1)		**Source: 3C30011-02**		Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	12.0	0.1	%		13.0			8.00	20	
Duplicate (P3D0202-DUP2)		**Source: 3C30014-01**		Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3D0202-DUP3)		**Source: 3C30014-16**		Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	13.0	0.1	%		14.0			7.41	20	
Duplicate (P3D0202-DUP4)		**Source: 3C31004-01**		Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3D0202-DUP5)		**Source: 3C31004-16**		Prepared: 04/02/23 Analyzed: 04/03/23						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Batch P3D0508 - * DEFAULT PREP *** **										
Blank (P3D0508-BLK1)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0508-BLK2)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0508-BLK3)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0508 - * DEFAULT PREP *** **										
Blank (P3D0508-BLK4)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0508-BLK5)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Duplicate (P3D0508-DUP1)		**Source: 3C29001-05**		Prepared & Analyzed: 04/05/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3D0508-DUP2)		**Source: 3C29001-15**		Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P3D0508-DUP3)		**Source: 3D03004-01**		Prepared & Analyzed: 04/05/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3D0508-DUP4)		**Source: 3C31004-27**		Prepared & Analyzed: 04/05/23						
% Moisture	4.0	0.1	%		3.0			28.6	20	QM-05
Duplicate (P3D0508-DUP5)		**Source: 3C31004-42**		Prepared & Analyzed: 04/05/23						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P3D0508-DUP6)		**Source: 3C31004-52**		Prepared & Analyzed: 04/05/23						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P3D0508-DUP7)		**Source: 3C31004-67**		Prepared & Analyzed: 04/05/23						
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P3D0508-DUP8)		**Source: 3C31004-77**		Prepared & Analyzed: 04/05/23						
% Moisture	4.0	0.1	%		5.0			22.2	20	QM-05

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0511 - * DEFAULT PREP *** **										
Blank (P3D0511-BLK1)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0511-BLK2)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0511-BLK3)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Blank (P3D0511-BLK4)				Prepared & Analyzed: 04/05/23						
% Moisture	ND	0.1	%							
Duplicate (P3D0511-DUP1)		**Source: 3C31005-10**		Prepared & Analyzed: 04/05/23						
% Moisture	1.0	0.1	%		2.0			66.7	20	R3
Duplicate (P3D0511-DUP2)		**Source: 3C31005-20**		Prepared & Analyzed: 04/05/23						
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P3D0511-DUP3)		**Source: 3D04001-01**		Prepared & Analyzed: 04/05/23						
% Moisture	2.0	0.1	%		6.0			100	20	R3
Duplicate (P3D0511-DUP4)		**Source: 3D04008-02**		Prepared & Analyzed: 04/05/23						
% Moisture	14.0	0.1	%		16.0			13.3	20	
Duplicate (P3D0511-DUP5)		**Source: 3D01004-09**		Prepared & Analyzed: 04/05/23						
% Moisture	5.0	0.1	%		3.0			50.0	20	R3
Duplicate (P3D0511-DUP6)		**Source: 3D01005-04**		Prepared & Analyzed: 04/05/23						
% Moisture	18.0	0.1	%		18.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0511 - * DEFAULT PREP *** **										
Duplicate (P3D0511-DUP7)	**Source: 3D02001-01**			Prepared & Analyzed: 04/05/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Batch P3D0516 - * DEFAULT PREP *** **										
Blank (P3D0516-BLK1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0516-BS1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	21.3		mg/kg	20.0		106	90-110			
LCS Dup (P3D0516-BSD1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	21.1		mg/kg	20.0		105	90-110	0.986	10	
Calibration Check (P3D0516-CCV1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	20.8		mg/kg	20.0		104	90-110			
Calibration Check (P3D0516-CCV2)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	21.4		mg/kg	20.0		107	90-110			
Matrix Spike (P3D0516-MS1)	**Source: 3C31003-03**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	12600	1.11	mg/kg dry	11100	142	112	80-120			
Matrix Spike (P3D0516-MS2)	**Source: 3C31004-12**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	9140	1.02	mg/kg dry	5100	3520	110	80-120			
Matrix Spike Dup (P3D0516-MSD1)	**Source: 3C31003-03**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	12700	1.11	mg/kg dry	11100	142	113	80-120	0.636	20	

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Larson & Associates, Inc.	Project: Piney Elder
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Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0516 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D0516-MSD2)	**Source: 3C31004-12**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	9180	1.02	mg/kg dry	5100	3520	111	80-120	0.466	20	
Batch P3D0517 - * DEFAULT PREP *** **										
Blank (P3D0517-BLK1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0517-BS1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	19.9		mg/kg	20.0		99.7	90-110			
LCS Dup (P3D0517-BSD1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	20.1		mg/kg	20.0		100	90-110	0.630	10	
Calibration Check (P3D0517-CCV1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	18.9		mg/kg	20.0		94.7	90-110			
Calibration Check (P3D0517-CCV2)				Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	19.1		mg/kg	20.0		95.5	90-110			
Calibration Check (P3D0517-CCV3)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	19.1		mg/kg	20.0		95.7	90-110			
Matrix Spike (P3D0517-MS1)	**Source: 3C31004-20**			Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	1500	1.01	mg/kg dry	253	1170	129	80-120			QM-05
Matrix Spike (P3D0517-MS2)	**Source: 3C31004-29**			Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	639	1.03	mg/kg dry	258	134	196	80-120			QM-05

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Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0517 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D0517-MSD1)	**Source: 3C31004-20**			Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	1440	1.01	mg/kg dry	253	1170	105	80-120	4.05	20	
Matrix Spike Dup (P3D0517-MSD2)	**Source: 3C31004-29**			Prepared: 04/05/23 Analyzed: 04/06/23						
Chloride	646	1.03	mg/kg dry	258	134	199	80-120	1.07	20	QM-05
Batch P3D0518 - * DEFAULT PREP *** **										
Blank (P3D0518-BLK1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0518-BS1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	21.1		mg/kg	20.0		106	90-110			
LCS Dup (P3D0518-BSD1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	20.4		mg/kg	20.0		102	90-110	3.34	10	
Calibration Check (P3D0518-CCV1)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	19.8		mg/kg	20.0		99.1	90-110			
Calibration Check (P3D0518-CCV2)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	19.3		mg/kg	20.0		96.3	90-110			
Calibration Check (P3D0518-CCV3)				Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	19.3		mg/kg	20.0		96.6	90-110			
Matrix Spike (P3D0518-MS1)	**Source: 3C31004-40**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	883	1.05	mg/kg dry	526	395	92.7	80-120			

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P.O. Box 50685	Project Number: 22-0107-02
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 P3D0518 - * DEFAULT PREP *** **										
Matrix Spike (P3D0518-MS2)	**Source: 3C31004-50**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	980	1.09	mg/kg dry	543	543	80.3	80-120			
Matrix Spike Dup (P3D0518-MSD1)	**Source: 3C31004-40**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	872	1.05	mg/kg dry	526	395	90.6	80-120	1.26	20	
Matrix Spike Dup (P3D0518-MSD2)	**Source: 3C31004-50**			Prepared: 04/05/23 Analyzed: 04/07/23						
Chloride	939	1.09	mg/kg dry	543	543	72.7	80-120	4.31	20	QM-05
Batch P3D0519 - * DEFAULT PREP *** **										
Blank (P3D0519-BLK1)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0519-BS1)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	18.4		mg/kg	20.0		92.2	90-110			
LCS Dup (P3D0519-BSD1)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	19.1		mg/kg	20.0		95.6	90-110	3.67	10	
Calibration Check (P3D0519-CCV1)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	18.4		mg/kg	20.0		92.2	90-110			
Calibration Check (P3D0519-CCV2)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	18.6		mg/kg	20.0		93.0	90-110			
Calibration Check (P3D0519-CCV3)				Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	18.7		mg/kg	20.0		93.5	90-110			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0519 - * DEFAULT PREP *** **										
Matrix Spike (P3D0519-MS1)	**Source: 3C31004-60**			Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	1040	1.04	mg/kg dry	521	545	95.0	80-120			
Matrix Spike (P3D0519-MS2)	**Source: 3C31004-70**			Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	992	1.04	mg/kg dry	521	613	72.9	80-120			QM-05
Matrix Spike Dup (P3D0519-MSD1)	**Source: 3C31004-60**			Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	975	1.04	mg/kg dry	521	545	82.6	80-120	6.43	20	
Matrix Spike Dup (P3D0519-MSD2)	**Source: 3C31004-70**			Prepared: 04/05/23 Analyzed: 04/09/23						
Chloride	911	1.04	mg/kg dry	521	613	57.2	80-120	8.59	20	QM-05
Batch P3D0701 - * DEFAULT PREP *** **										
Blank (P3D0701-BLK1)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0701-BS1)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	21.1		mg/kg	20.0		105	90-110			
LCS Dup (P3D0701-BSD1)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	20.6		mg/kg	20.0		103	90-110	2.15	10	
Calibration Check (P3D0701-CCV1)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	20.9		mg/kg	20.0		104	90-110			
Calibration Check (P3D0701-CCV2)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	20.9		mg/kg	20.0		104	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0701 - * DEFAULT PREP *** **										
Calibration Check (P3D0701-CCV3)				Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	21.0		mg/kg	20.0		105	90-110			
Matrix Spike (P3D0701-MS1)		**Source: 3C31004-80**		Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	127		mg/kg	50.0	69.0	116	80-120			
Matrix Spike (P3D0701-MS2)		**Source: 3C31004-90**		Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	144		mg/kg	25.0	105	155	80-120			QM-05
Matrix Spike Dup (P3D0701-MSD1)		**Source: 3C31004-80**		Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	135		mg/kg	50.0	69.0	131	80-120	5.54	20	QM-05
Matrix Spike Dup (P3D0701-MSD2)		**Source: 3C31004-90**		Prepared: 04/07/23 Analyzed: 04/08/23						
Chloride	133		mg/kg	25.0	105	109	80-120	8.37	20	
Batch P3D0702 - * DEFAULT PREP *** **										
Blank (P3D0702-BLK1)				Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0702-BS1)				Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	18.7		mg/kg	20.0		93.6	90-110			
LCS Dup (P3D0702-BSD1)				Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	18.9		mg/kg	20.0		94.4	90-110	0.904	10	
Calibration Check (P3D0702-CCV1)				Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	18.7		mg/kg	20.0		93.7	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0702 - * DEFAULT PREP *** **										
Calibration Check (P3D0702-CCV2)				Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	18.8		mg/kg	20.0		94.2	90-110			
Duplicate (P3D0702-DUP1)		Source: 3C31005-20		Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	1880	1.15	mg/kg dry		1930			2.70	20	
Matrix Spike (P3D0702-MS1)		Source: 3C31005-10		Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	111		mg/kg	50.0	78.3	65.9	80-120			QM-05
Matrix Spike Dup (P3D0702-MSD1)		Source: 3C31005-10		Prepared: 04/07/23 Analyzed: 04/10/23						
Chloride	119		mg/kg	50.0	78.3	80.5	80-120	6.33	20	
Batch P3D0802 - * DEFAULT PREP *** **										
Blank (P3D0802-BLK1)				Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D0802-BS1)				Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	21.7		mg/kg	20.0		108	90-110			
LCS Dup (P3D0802-BSD1)				Prepared: 04/08/23 Analyzed: 04/12/23						
Chloride	19.7		mg/kg	20.0		98.6	90-110	9.44	10	
Calibration Check (P3D0802-CCV1)				Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	21.8		mg/kg	20.0		109	90-110			
Calibration Check (P3D0802-CCV2)				Prepared: 04/08/23 Analyzed: 04/12/23						
Chloride	21.9		mg/kg	20.0		110	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3D0802 - * DEFAULT PREP *** **										
Matrix Spike (P3D0802-MS1)	**Source: 3C31005-30**			Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	106		mg/kg	50.0	47.2	117	80-120			
Matrix Spike (P3D0802-MS2)	**Source: 3D01004-05**			Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	152		mg/kg	100	11.4	141	80-120			QM-05
Matrix Spike Dup (P3D0802-MSD1)	**Source: 3C31005-30**			Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	111		mg/kg	50.0	47.2	127	80-120	4.64	20	QM-05
Matrix Spike Dup (P3D0802-MSD2)	**Source: 3D01004-05**			Prepared: 04/08/23 Analyzed: 04/11/23						
Chloride	151		mg/kg	100	11.4	139	80-120	1.21	20	QM-05

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: Brent Barron Date: 4/13/2023

Brent Barron, Laboratory Director/Technical Director

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 1 OF 9

PO#: LAB WORK ORDER#: 3C31004

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX + MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE + ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW3	1	3-28-23	1200	S	1				X		X		X		X	X	X																									X		
SW4	2		1210		1																																							
SW5	3		1220		1																																							
SW6	4		1230		1																																							
SW7	5		1240		1																																							
SW10	6		1250		1																																							
C88	7		1300		1																																							
C89	8		1310		1																																							
C90	9		1320		1																																							
C91	10		1330		1																																							
C92	11		1340		1																																							
C93	12		1350		1																																							
C94	13		1400		1																																							
C95	14		1410		1																																							
C96	15	3-28-23	1420	S	1				X		X		X		X	X	X																									X		
TOTAL 15																																												

RELINQUISHED BY:(Signature) DATE/TIME 3-31-23 8:43 RECEIVED BY: (Signature) Trina Bledsoe

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF 3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

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Page 788 of 1437

CHAIN-OF-CUSTODY

Page 181 of 188

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 2 OF 9
PO#:
LAB WORK ORDER#: 3C31004
PROJECT LOCATION OR NAME: Piney Elder
LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX + MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C97	16	3-28-23	1430	S	1				X		X		X	X	X																											X			
C98	17	"	1440	"	"				"		"		"	"	"																											"			
C99	18	"	1450	"	"				"		"		"	"	"																											"			
C100	19	"	1500	"	"				"		"		"	"	"																											"			
C101	20	"	1510	"	"				"		"		"	"	"																											"			
C102	21	"	1520	"	"				"		"		"	"	"																											"			
C103	22	"	1530	"	"				"		"		"	"	"																											"			
C104	23	"	1540	"	"				"		"		"	"	"																											"			
C105	24	"	1550	"	"				"		"		"	"	"																											"			
C106	25	"	1600	"	"				"		"		"	"	"																											"			
C107	26	3-28-23	1610	"	"				"		"		"	"	"																											"			
C108	27	3-29-23	800	"	"				"		"		"	"	"																											"			
C109	28	"	810	"	"				"		"		"	"	"																											"			
SW11	29	"	820	"	"				"		"		"	"	"																											"			
SW12	30	3-29-23	830	S	1				X		X		X	X	X																											X			

TOTAL 15

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Jason Hurd	3.31.23 8:43	Alma Bledsoe
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
Released to Imaging: 9/30/2024 4:19:02 PM

Page 789 of 1437

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 3 OF 9

PO#: LAB WORK ORDER#: 3C31004

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ❑ NaOH ❑	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ❑	TRPH 418.1 ❑	TPH 1005 ❑ TPH 1006 ❑	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ❑	SVOC 8270 ❑	PAH 8270 ❑ HOLDPAH ❑	8081 PESTICIDES ❑	8082 PCBS ❑	8151 HERBICIDES ❑	TCLP - METALS (RCRA) ❑	TCLP VOC ❑	TCLP - PEST ❑ HERB ❑ Semi-VOC ❑	TOTAL METALS (RCRA) ❑ OTHER LIST ❑	LEAD - TOTAL ❑ D.W. 200.8 ❑ TCLP ❑	RCI ❑ TOX ❑ FLASHPOINT ❑	TDS ❑ TSS ❑ % MOISTURE ❑ CYANIDE ❑	pH ❑ HEXAVALENT CHROMIUM ❑	EXPLOSIVES ❑ PECHLORATE ❑	CHLORIDES ☒ ANIONS ❑ ALKALINITY ❑	FIELD NOTES
C110	31	3-29-23	840	S	1				X		X			X	X	X																X		
C111	32		850																															
C112	33		900																															
C113	34		910																															
C114	35		920																															
C115	36		930																															
C116	37		940																															
C117	38		950																															
C118	39		1000																															
C119	40		1010																															
C120	41		1020																															
C121	42		1030																															
C122	43		1040																															
C123	44		1050																															
C124	45		1100	S	1				X		X			X	X	X																X		
TOTAL 15																																		

RELINQUISHED BY:(Signature) Jason Hamlin DATE/TIME 3-31-23 0:43 RECEIVED BY: (Signature) Brian Bosse

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF L3
CUSTODY SEALS - ❑ BROKEN ❑ INTACT ❑ NOT USED
❑ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Page 790 of 1437

CHAIN-OF-CUSTODY

Page 183 of 188

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson / Mark Larson

DATE: 3-30-23 PAGE 4 OF 9

PO#: LAB WORK ORDER#: 3C31004

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C125	46	3-29-23	1110	S	1				X		X		X	X	X														X	
C126	47		1120																											
C127	48		1130																											
C128	49		1140																											
C129	50		1150																											
C130	51		1200																											
C131	52		1210																											
C132	53		1220																											
C133	54		1230																											
C134	55		1240																											
C135	56		1250																											
C136	57		1300																											
C137	58		1310																											
C138	59		1320																											
C139	60	3-29-23	1330	S	1				X		X		X	X	X														X	
TOTAL 15																														

RELINQUISHED BY:(Signature) DATE/TIME 3-31-23 RECEIVED BY:(Signature) 9:43

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY: NCF
RECEIVING TEMP: 4.4 THERM#: L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

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№ 2024

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 5 OF 9

PO#: LAB WORK ORDER#: 3C31004

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ~~+~~ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ~~B~~	DIESEL - MOD 8015 ~~B~~	OIL - MOD 8015 ~~B~~	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ~~B~~ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C140	61	3-29-23	1340	S	1				X		X		X	X	X														X		
C141	62	"	1350	"	"				"		"		"	"	"														"		
C142	63	"	1400	"	"				"		"		"	"	"														"		
C143	64	"	1410	"	"				"		"		"	"	"														"		
C144	65	"	1420	"	"				"		"		"	"	"														"		
C145	66	"	1430	"	"				"		"		"	"	"														"		
C146	67	"	1440	"	"				"		"		"	"	"														"		
C147	68	"	1450	"	"				"		"		"	"	"														"		
C148	69	"	1500	"	"				"		"		"	"	"														"		
C149	70	"	1510	"	"				"		"		"	"	"														"		
C150	71	"	1520	"	"				"		"		"	"	"														"		
C151	72	"	1530	"	"				"		"		"	"	"														"		
C152	73	"	1540	"	"				"		"		"	"	"														"		
C153	74	"	1550	"	"				"		"		"	"	"														"		
C154	75	3-29-23	1600	S	1				X		X		X	X	X														X		
TOTAL	15																														

RELINQUISHED BY:(Signature) DATE/TIME 3-31-23 8:43 RECEIVED BY: (Signature) Olivia Bledsoe

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: -4.4 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 6 OF 9

PO#: LAB WORK ORDER#: 3C31004

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	CYANIDE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C155	76	3-29-23	1610	S	1				X		X		X	X	X																												X			
SW13	77	"	1620	"	"				"		"		"	"	"																												"			
SW14	78	"	1630	"	"				"		"		"	"	"																												"			
SW15	79	"	1640	"	"				"		"		"	"	"																												"			
SW16	80	"	1650	"	"				"		"		"	"	"																												"			
SW17	81	"	1700	"	"				"		"		"	"	"																												"			
SW18	82	3-29-23	1710	"	"				"		"		"	"	"																												"			
C156	83	3-30-23	805	"	"				"		"		"	"	"																												"			
C157	84	"	810	"	"				"		"		"	"	"																												"			
C158	85	"	815	"	"				"		"		"	"	"																												"			
C159	86	"	820	"	"				"		"		"	"	"																												"			
C160	87	"	825	"	"				"		"		"	"	"																												"			
C161	88	"	830	"	"				"		"		"	"	"																												"			
C162	89	"	835	"	"				"		"		"	"	"																												"			
C163	90	3-30-23	840	S	1				X		X		X	X	X																												X			

TOTAL 15

RELINQUISHED BY:(Signature) DATE/TIME 3-31-23 0:43 RECEIVED BY: (Signature)

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF 63
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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№ 2026

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 3-30-23 PAGE 7 OF 9

PO#: LAB WORK ORDER#: 3C31005

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

Data Reported to: Robert Nelson/Mick Larson

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C164	1	3-30-23	845	S	1				X		X		X	X	X		X		
C165	2		850																
C166	3		855																
C167	4		900																
C168	5		905																
C169	6		910																
C170	7		915																
C171	8		920																
C172	9		925																
C173	10		930																
C174	11		935																
C175	12		940																
C176	13		945																
C177	14		950																
C178	15	3-30-23	1000	S	X				X		X		X	X	X		X		

TOTAL 15

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Jason Burns	3-31-23 8:43	Trina Bledsoe
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF 63
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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№ 2027

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 3-30-23 PAGE 8 OF 9

PO#: LAB WORK ORDER#: 3C31005

PROJECT LOCATION OR NAME: Pliney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

Data Reported to: Robert Nelson/Mark Larson

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C179	16	3-30-23	1005	S	1				X		X				X	X	X																													
C180	17	"	1010	"	"				"		"				"	"	"																													
C181	18	"	1015	"	"				"		"				"	"	"																													
C182	19	"	1020	"	"				"		"				"	"	"																													
C183	20	"	1025	"	"				"		"				"	"	"																													
C184	21	"	1030	"	"				"		"				"	"	"																													
C185	22	"	1035	"	"				"		"				"	"	"																													
C186	23	"	1040	"	"				"		"				"	"	"																													
C187	24	"	1045	"	"				"		"				"	"	"																													
C188	25	"	1050	"	"				"		"				"	"	"																													
C189	26	"	1055	"	"				"		"				"	"	"																													
C190	27	"	1100	"	"				"		"				"	"	"																													
C191	28	"	1105	"	"				"		"				"	"	"																													
C192	29	"	1110	"	"				"		"				"	"	"																													
C193	30	3-30-23	1120	S	1				X		X				X	X	X																													
TOTAL 15																																														

RELINQUISHED BY:(Signature) DATE/TIME 3-31-23 8:43 RECEIVED BY: (Signature)

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

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

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NC5 63
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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№ 2028

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson/Mark Larson

DATE: 3-30-23 PAGE 9 OF 9

PO#: LAB WORK ORDER#: 3C31005

PROJECT LOCATION OR NAME: Pliney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C194	31	3-30-23	1125	S	1				X		X				X	X	X																													
C195	32	"	1130	"	1				"		"				"	"	"																														
C196	33	"	1145	"	1				"		"				"	"	"																														
C197	34	3-30-23	1150	S	1				X		X				X	X	X																														

TOTAL 4

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Jean Thiele	3-31-23 8:43	Tina Bledsoe
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBE

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM#: NCF LB
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
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PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3E01009

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/11/23

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-17 @ 2'	3E01009-01	Soil	04/25/23 13:00	05-01-2023 09:07
C-54 @ 2'	3E01009-02	Soil	04/25/23 13:04	05-01-2023 09:07
C-55 @ 2'	3E01009-03	Soil	04/25/23 13:06	05-01-2023 09:07
C-56 @ 2'	3E01009-04	Soil	04/25/23 13:08	05-01-2023 09:07
C-66 @ 2'	3E01009-05	Soil	04/25/23 13:40	05-01-2023 09:07
C-70 @ 3'	3E01009-06	Soil	04/25/23 13:42	05-01-2023 09:07
C-74 @ 2'	3E01009-07	Soil	04/25/23 13:44	05-01-2023 09:07
C-85 @ 2'	3E01009-08	Soil	04/25/23 13:46	05-01-2023 09:07
C-51 @ 3'	3E01009-09	Soil	04/26/23 11:20	05-01-2023 09:07
C-89 @ 3'	3E01009-10	Soil	04/26/23 11:22	05-01-2023 09:07
C-90 @ 3'	3E01009-11	Soil	04/26/23 11:24	05-01-2023 09:07
C-91 @ 3'	3E01009-12	Soil	04/26/23 11:26	05-01-2023 09:07
C-92 @ 3'	3E01009-13	Soil	04/26/23 11:28	05-01-2023 09:07
C-93 @ 3'	3E01009-14	Soil	04/26/23 11:30	05-01-2023 09:07
C-94 @ 3'	3E01009-15	Soil	04/26/23 11:32	05-01-2023 09:07
C-95 @ 3'	3E01009-16	Soil	04/26/23 11:34	05-01-2023 09:07
C-96 @ 3'	3E01009-17	Soil	04/26/23 11:36	05-01-2023 09:07
C-100 @ 3'	3E01009-18	Soil	04/26/23 11:44	05-01-2023 09:07
C-101 @ 3'	3E01009-19	Soil	04/26/23 11:46	05-01-2023 09:07
C-102 @ 3'	3E01009-20	Soil	04/26/23 11:48	05-01-2023 09:07
C-103 @ 3'	3E01009-21	Soil	04/26/23 11:50	05-01-2023 09:07
C-104 @ 3'	3E01009-22	Soil	04/26/23 11:52	05-01-2023 09:07
C-107 @ 4.1'	3E01009-23	Soil	04/27/23 10:10	05-01-2023 09:07
C-109 @ 4.1'	3E01009-24	Soil	04/27/23 10:12	05-01-2023 09:07
C-205 @ 0-4.1'	3E01009-25	Soil	04/27/23 10:14	05-01-2023 09:07
C-212 @ 2'	3E01009-26	Soil	04/27/23 12:50	05-01-2023 09:07
C-213 @ 2'	3E01009-27	Soil	04/27/23 12:52	05-01-2023 09:07
C-214 @ 2'	3E01009-28	Soil	04/27/23 12:54	05-01-2023 09:07
C-215 @ 2'	3E01009-29	Soil	04/27/23 12:56	05-01-2023 09:07
C-216 @ 2'	3E01009-30	Soil	04/27/23 12:58	05-01-2023 09:07
C-217 @ 2'	3E01009-31	Soil	04/27/23 13:00	05-01-2023 09:07
C-218 @ 2'	3E01009-32	Soil	04/27/23 13:02	05-01-2023 09:07
C-219 @ 2'	3E01009-33	Soil	04/27/23 13:04	05-01-2023 09:07
C-220 @ 2'	3E01009-34	Soil	04/27/23 13:06	05-01-2023 09:07

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-221 @ 2'	3E01009-35	Soil	04/27/23 13:08	05-01-2023 09:07
C-222 @ 2'	3E01009-36	Soil	04/27/23 13:10	05-01-2023 09:07
C-223 @ 2'	3E01009-37	Soil	04/27/23 13:12	05-01-2023 09:07
C-224 @ 2'	3E01009-38	Soil	04/27/23 13:14	05-01-2023 09:07
C-225 @ 2'	3E01009-39	Soil	04/27/23 13:16	05-01-2023 09:07
C-226 @ 2'	3E01009-40	Soil	04/27/23 13:18	05-01-2023 09:07
C-227 @ 2'	3E01009-41	Soil	04/27/23 13:20	05-01-2023 09:07
C-97 @ 4.1'	3E01009-42	Soil	04/27/23 13:52	05-01-2023 09:07
C-98 @ 4.1'	3E01009-43	Soil	04/27/23 13:54	05-01-2023 09:07
C-99 @ 4.1'	3E01009-44	Soil	04/27/23 13:56	05-01-2023 09:07
C-105 @ 4.1'	3E01009-45	Soil	04/27/23 13:58	05-01-2023 09:07
C-199B @ 0-3'	3E01009-46	Soil	04/27/23 14:42	05-01-2023 09:07
C-200 @ 0-3'	3E01009-47	Soil	04/27/23 14:44	05-01-2023 09:07
C-228 @ 4.1'	3E01009-48	Soil	04/28/23 00:00	05-01-2023 09:07
C-229 @ 4.1'	3E01009-49	Soil	04/28/23 00:00	05-01-2023 09:07
C-230 @ 4.1'	3E01009-50	Soil	04/28/23 00:00	05-01-2023 09:07
C-231 @ 4.1'	3E01009-51	Soil	04/28/23 00:00	05-01-2023 09:07
C-232 @ 4.1'	3E01009-52	Soil	04/28/23 00:00	05-01-2023 09:07
C-233 @ 0-4.1"	3E01009-53	Soil	04/28/23 00:00	05-01-2023 09:07
C-234 @ 4.1'	3E01009-54	Soil	04/28/23 00:00	05-01-2023 09:07
C-235 @ 4.1'	3E01009-55	Soil	04/28/23 00:00	05-01-2023 09:07
C-236 @ 4.1'	3E01009-56	Soil	04/28/23 00:00	05-01-2023 09:07
C-237 @ 4.1'	3E01009-57	Soil	04/28/23 00:00	05-01-2023 09:07
C-238 @ 4.1'	3E01009-58	Soil	04/28/23 00:00	05-01-2023 09:07
C-239 @ 4.1'	3E01009-59	Soil	04/28/23 00:00	05-01-2023 09:07
C-240 @ 4.1'	3E01009-60	Soil	04/28/23 00:00	05-01-2023 09:07
C-241 @ 4.1'	3E01009-61	Soil	04/28/23 09:04	05-01-2023 09:07
C-242 @ 4.1'	3E01009-62	Soil	04/28/23 09:06	05-01-2023 09:07
C-243 @ 4.1'	3E01009-63	Soil	04/28/23 09:08	05-01-2023 09:07
C-244 @ 0-4.1'	3E01009-64	Soil	04/28/23 09:10	05-01-2023 09:07
C-245 @ 0-4.1"	3E01009-65	Soil	04/28/23 09:12	05-01-2023 09:07
C-199A @ 0-4.1'	3E01009-66	Soil	04/28/23 09:30	05-01-2023 09:07
C-203 @ 0-4.1'	3E01009-67	Soil	04/28/23 09:32	05-01-2023 09:07

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-17 @ 2'

3E01009-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:45	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:45	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.0 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 20:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.4 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 20:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 20:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**151**	1.05	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 01:26	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-54 @ 2'

3E01009-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:31	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:31	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:31	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:31	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:09	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:09	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.5 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.7 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 21:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.1**	1.02	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 01:41	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-55 @ 2'

3E01009-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:52	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:52	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:52	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:52	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 04:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 04:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:33	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:33	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.4 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.4 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 21:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**164**	1.06	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 01:55	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-56 @ 2'

3E01009-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 05:13	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 05:13	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 05:13	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 05:13	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0108	05/01/23 13:32	05/02/23 05:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 05:13*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*80-120*		*P3E0108*	*05/01/23 13:32*	*05/02/23 05:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:58	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:58	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 21:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.9 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 21:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 21:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**256**	1.03	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 02:09	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-66 @ 2'

3E01009-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 13:44	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 13:44	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 13:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 13:44	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 13:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 13:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 13:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:22	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:22	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 22:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 22:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 22:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**34.8**	1.05	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 02:24	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-70 @ 3'

3E01009-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:04	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:04	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:04	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:04	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:46	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:46	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 22:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.2 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 22:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.7 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 22:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 22:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.04	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 02:38	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-74 @ 2'

3E01009-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:25	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:25	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:25	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:25	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 23:59	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 23:59	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 23:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.8 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 23:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 23:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 23:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**122**	1.05	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 02:52	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-85 @ 2'

3E01009-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:46	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:46	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:46	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:46	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 14:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 14:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:23	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:23	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.7 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 00:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.2 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 00:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 00:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**29.5**	1.06	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 03:07	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-51 @ 3'

3E01009-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:24	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:24	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:24	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:24	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 17:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 17:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:48	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:48	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 00:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 00:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 00:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 00:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**284**	1.03	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 03:21	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-89 @ 3'

3E01009-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:45	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:45	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:45	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:45	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 17:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 17:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 17:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:13	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:13	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 01:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.9 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 01:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 01:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.6**	1.04	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 04:47	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-90 @ 3'

3E01009-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 15:49	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 15:49	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 15:49	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 15:49	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 15:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 15:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 15:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:38	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:38	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 01:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 01:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 01:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 01:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**47.7**	1.10	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 05:30	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-91 @ 3'

3E01009-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 16:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 16:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:03	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:03	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 02:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**21.8**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 05:45	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-92 @ 3'

3E01009-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 14:36	05/02/23 16:31	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 14:36	05/02/23 16:31	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 14:36	05/02/23 16:31	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0202	05/02/23 14:36	05/02/23 16:31	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 14:36	05/02/23 16:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0202*	*05/02/23 14:36*	*05/02/23 16:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0202*	*05/02/23 14:36*	*05/02/23 16:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:29	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:29	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.0 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 02:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.5**	1.03	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 05:59	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-93 @ 3'

3E01009-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:51	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:51	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:51	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:51	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 16:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 16:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.3 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 16:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:54	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:54	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 02:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.0 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 02:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 02:54	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.52**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 06:13	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-94 @ 3'

3E01009-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 17:53	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 17:53	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 17:53	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 17:53	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 17:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 17:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.8 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 17:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.1 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 03:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 03:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 03:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**82.5**	1.06	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 06:28	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-95 @ 3'

3E01009-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:14	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:14	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:14	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:44	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:44	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/03/23 03:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 03:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/03/23 03:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/03/23 03:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.97**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 06:42	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-96 @ 3'

3E01009-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:34	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:34	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:34	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:34	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:34*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.6 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 04:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 04:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 04:15	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.01**	1.06	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 06:56	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-100 @ 3'

3E01009-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:55	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:55	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:55	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:55	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 18:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 18:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:40	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:40	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 04:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.0 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 04:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 04:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 04:40	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**33.5**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 07:11	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-101 @ 3'

3E01009-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:15	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:15	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:15	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:15	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:15*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:04	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:04	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.1 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:04*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 05:04	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**427**	1.06	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 07:25	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-102 @ 3'

3E01009-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:36	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:36	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:36	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:36	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:27	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:27	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 05:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.03	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 08:08	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-103 @ 3'

3E01009-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:56	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:56	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:56	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:56	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 19:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:56*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 19:56*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:51	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:51	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 05:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.9 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 05:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 05:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**601**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 08:51	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-104 @ 3'

3E01009-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:17	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:17	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.7 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 06:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 06:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 06:15	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**118**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 09:05	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-107 @ 4.1'

3E01009-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:37	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:37	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:37	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:37	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:37*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:39	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:39	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 06:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 06:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*80.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 06:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 06:39	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**50.3**	1.02	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 09:19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-109 @ 4.1'

3E01009-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:58	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:58	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:58	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:58	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0202	05/02/23 10:36	05/02/23 20:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*80-120*		*P3E0202*	*05/02/23 10:36*	*05/02/23 20:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:03	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:03	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 07:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**137**	1.03	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 09:34	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-205 @ 0-4.1'

3E01009-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/02/23 23:41	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/02/23 23:41	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/02/23 23:41	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/02/23 23:41	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/02/23 23:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/02/23 23:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/02/23 23:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:27	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:27	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.0 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*79.5 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 07:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**64.7**	1.02	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 09:48	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-212 @ 2'

3E01009-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:02	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:02	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:02	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:02	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:51	TPH 8015M	
>C12-C28	**1400**	25.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:51	TPH 8015M	
>C28-C35	**107**	25.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 07:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.3 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 07:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1510**	25.3	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 07:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**140**	1.01	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 10:02	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-213 @ 2'

3E01009-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:22	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:22	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:22	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:22	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:01	TPH 8015M	
>C12-C28	**182**	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:01	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.5 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**182**	25.8	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 09:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1840**	1.03	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 10:16	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-214 @ 2'

3E01009-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:43	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:43	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:43	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:43	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 00:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 00:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:25	TPH 8015M	
>C12-C28	**107**	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:25	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**107**	26.3	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 09:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1280**	1.05	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 10:31	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-215 @ 2'

3E01009-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:04	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:04	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:04	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:04	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:48	TPH 8015M	
>C12-C28	**110**	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:48	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 09:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.6 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 09:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**110**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 09:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1000**	1.02	mg/kg dry	1	P3E0406	05/04/23 14:10	05/06/23 10:45	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-216 @ 2'

3E01009-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:24	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:24	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:24	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:24	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**76.5**	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:11	TPH 8015M	
>C12-C28	**2140**	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:11	TPH 8015M	
>C28-C35	**62.8**	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.3 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2280**	25.8	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 10:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3810**	10.3	mg/kg dry	10	P3E0407	05/04/23 14:12	05/08/23 00:48	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-217 @ 2'

3E01009-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:45	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:45	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:45	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:45	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 01:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 01:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:35	TPH 8015M	
>C12-C28	**141**	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:35	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.0 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**141**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 10:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2880**	10.2	mg/kg dry	10	P3E0407	05/04/23 14:12	05/08/23 13:36	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-218 @ 2'

3E01009-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:06	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:06	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:06	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:06	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:58	TPH 8015M	
>C12-C28	**57.6**	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:58	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 10:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 10:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**57.6**	26.6	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 10:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**652**	1.06	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 18:48	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-219 @ 2'

3E01009-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:27	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:27	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:27	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:27	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:21	TPH 8015M	
>C12-C28	**145**	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 11:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 11:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**145**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 11:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1030**	1.02	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 19:02	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-220 @ 2'

3E01009-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:48	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:48	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:48	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:48	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 02:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.1 %*		*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:48*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*102 %*		*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 02:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:45	TPH 8015M	
>C12-C28	**117**	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:45	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 11:45	TPH 8015M	
Surrogate: 1-Chlorooctane	*93.5 %*		*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 11:45*	*TPH 8015M*	
Surrogate: o-Terphenyl	*101 %*		*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 11:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**117**	25.8	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 11:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1830**	1.03	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 19:17	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-221 @ 2'

3E01009-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 03:50	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 03:50	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 03:50	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 03:50	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 03:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 03:50*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 03:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:08	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:08	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 12:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 12:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 12:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**496**	1.02	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 19:31	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-222 @ 2'

3E01009-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:11	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:11	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:11	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:11	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:32	TPH 8015M	
>C12-C28	**97.2**	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:32	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0208	05/02/23 12:15	05/04/23 12:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.0 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 12:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0208*	*05/02/23 12:15*	*05/04/23 12:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**97.2**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:15	05/04/23 12:32	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**766**	1.02	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 19:45	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-223 @ 2'

3E01009-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:32	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:32	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:32	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:32	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:14	TPH 8015M	
>C12-C28	**108**	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:14	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 21:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 21:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**108**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 21:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2780**	10.2	mg/kg dry	10	P3E0407	05/04/23 14:12	05/08/23 01:31	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-224 @ 2'

3E01009-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:53	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:53	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:53	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:53	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 04:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 04:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:40	TPH 8015M	
>C12-C28	**52.6**	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:40	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 21:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.7 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 21:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*78.2 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 21:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**52.6**	25.3	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 21:40	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1150**	1.01	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 20:14	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-225 @ 2'

3E01009-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:14	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:14	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:14	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:14	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:05	TPH 8015M	
>C12-C28	**100**	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:05	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.3 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**100**	25.8	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 22:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**514**	1.03	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 20:28	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-226 @ 2'

3E01009-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:34	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:34	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:34	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:34	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:31	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:31	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.5 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 22:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1150**	1.04	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 21:11	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-227 @ 2'

3E01009-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:55	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:55	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:55	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:55	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 05:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 05:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:56	TPH 8015M	
>C12-C28	**181**	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:56	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 22:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.1 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 22:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**181**	25.8	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 22:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1640**	1.03	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 21:54	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-97 @ 4.1'

3E01009-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:16	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:16	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:16	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:16	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.6 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 23:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 23:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 23:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1320**	1.05	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 22:09	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-98 @ 4.1'

3E01009-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:36	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:36	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:36	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:36	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:46	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:46	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3E0209	05/02/23 12:58	05/09/23 23:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 23:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/09/23 23:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	05/02/23 12:58	05/09/23 23:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1190**	1.12	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 22:23	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-99 @ 4.1'

3E01009-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:57	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:57	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:57	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:57	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3E0203	05/02/23 10:40	05/03/23 06:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0203*	*05/02/23 10:40*	*05/03/23 06:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:11	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:11	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.0 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 00:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.5 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 00:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 00:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2770**	11.4	mg/kg dry	10	P3E0407	05/04/23 14:12	05/08/23 01:46	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-105 @ 4.1'

3E01009-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:06	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:06	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:06	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:06	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:35	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:35	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 00:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 00:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 00:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 00:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1530**	1.09	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 22:52	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-199B @ 0-3'

3E01009-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:26	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:26	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:26	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:26	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:26*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 01:00	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 01:00	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 01:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.9 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 01:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 01:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 01:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**56.4**	1.04	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 23:06	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-200 @ 0-3'

3E01009-47 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:47	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:47	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:47	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:47	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 18:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 18:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:14	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:14	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.3 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 02:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 02:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 02:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**41.9**	1.06	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 23:21	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-228 @ 4.1'

3E01009-48 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:07	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:07	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:07	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:07	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.9 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:38	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:38	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 02:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.6 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 02:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 02:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 02:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**561**	1.02	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 23:35	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-229 @ 4.1'

3E01009-49 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:28	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:28	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:28	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:28	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:03	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:03	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 03:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**668**	1.06	mg/kg dry	1	P3E0407	05/04/23 14:12	05/06/23 23:49	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-230 @ 4.1'

3E01009-50 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:49	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:49	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:49	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:49	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 19:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 19:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:27	TPH 8015M	
>C12-C28	**151**	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:27	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**151**	25.5	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 03:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1240**	1.02	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 10:29	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-231 @ 4.1'

3E01009-51 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 20:09	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 20:09	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 20:09	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 20:09	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 20:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 20:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 20:09*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:52	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:52	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 03:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 03:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 03:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3200**	10.6	mg/kg dry	10	P3E0501	05/05/23 13:29	05/08/23 02:00	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-232 @ 4.1'

3E01009-52 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:11	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:11	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:11	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:11	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:11*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:16	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:16	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 04:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 04:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 04:16	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**795**	1.04	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 11:27	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-233 @ 0-4.1"

3E01009-53 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:31	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:41	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:41	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 04:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 04:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 04:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 04:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**156**	1.01	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 11:41	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-234 @ 4.1'

3E01009-54 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:51	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:51	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:51	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:51	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 21:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 21:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 08:49	TPH 8015M	
>C12-C28	**56.1**	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 08:49	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 08:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*137 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 08:49*	*TPH 8015M*	*S-GC1*
Surrogate: o-Terphenyl		*139 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 08:49*	*TPH 8015M*	*S-GC1*
Total Petroleum Hydrocarbon C6-C35	**56.1**	25.3	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 08:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**282**	1.01	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 11:55	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-235 @ 4.1'

3E01009-55 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:12	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:12	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:12	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:12	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:12*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:12*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:30	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:30	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.1 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 05:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 05:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 05:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**162**	1.01	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 12:10	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-236 @ 4.1'

3E01009-56 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:32	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:32	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:32	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:32	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:55	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:55	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0209	05/02/23 12:58	05/10/23 05:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.3 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 05:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.9 %*	*70-130*		*P3E0209*	*05/02/23 12:58*	*05/10/23 05:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 12:58	05/10/23 05:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**60.4**	1.02	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 12:24	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-237 @ 4.1'

3E01009-57 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:53	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:53	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:53	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:53	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 22:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 22:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.6 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 11:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.3 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 11:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 11:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**186**	1.02	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 12:38	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-238 @ 4.1'

3E01009-58 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:13	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:13	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:13	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:13	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:45	TPH 8015M	
>C12-C28	**85.6**	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:45	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 11:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.5 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 11:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 11:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**85.6**	25.8	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 11:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2040**	1.03	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 12:52	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-239 @ 4.1'

3E01009-59 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:34	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:34	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:34	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:34	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:34*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:11	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:11	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.4 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 12:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 12:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 12:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**402**	1.03	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 13:07	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-240 @ 4.1'

3E01009-60 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:55	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:55	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:55	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:55	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E0305	05/03/23 12:06	05/03/23 23:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/03/23 23:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:37	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:37	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 12:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.8 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 12:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.6 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 12:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 12:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**120**	1.00	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 14:18	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-241 @ 4.1'

3E01009-61 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/04/23 00:16	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/04/23 00:16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/04/23 00:16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0305	05/03/23 12:06	05/04/23 00:16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0305	05/03/23 12:06	05/04/23 00:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/04/23 00:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3E0305*	*05/03/23 12:06*	*05/04/23 00:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:04	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:04	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.3 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:04*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 13:04	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**91.6**	1.02	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 15:01	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-242 @ 4.1'

3E01009-62 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 04:46	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 04:46	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 04:46	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 04:46	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 04:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 04:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 04:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:31	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:31	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.6 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.1 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 13:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**300**	1.01	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 15:15	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-243 @ 4.1'

3E01009-63 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:07	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:07	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:07	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:07	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:58	TPH 8015M	
>C12-C28	**86.1**	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:58	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 13:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.2 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 13:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**86.1**	25.8	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 13:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2550**	10.3	mg/kg dry	10	P3E0501	05/05/23 13:29	05/08/23 11:06	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-244 @ 0-4.1'

3E01009-64 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:28	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:28	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:28	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:28	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:26	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:26	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.5 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 14:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.0 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 14:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 14:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**148**	1.00	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 15:44	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-245 @ 0-4.1"

3E01009-65 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:49	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:49	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:49	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:49	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 05:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 05:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:53	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:53	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 14:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 14:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.8 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 14:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 14:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**37.3**	1.01	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 15:58	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-199A @ 0-4.1'

3E01009-66 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 06:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 06:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 15:20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 15:20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 15:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.1 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 15:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 15:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 15:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.3**	1.05	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 16:13	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-203 @ 0-4.1'

3E01009-67 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:32	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:32	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:32	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:32	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0408	05/04/23 15:10	05/05/23 06:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 06:32*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.3 %*	*80-120*		*P3E0408*	*05/04/23 15:10*	*05/05/23 06:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 16:44	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 16:44	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0210	05/02/23 13:48	05/10/23 16:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.8 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 16:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E0210*	*05/02/23 13:48*	*05/10/23 16:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/02/23 13:48	05/10/23 16:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**76.6**	1.06	mg/kg dry	1	P3E0501	05/05/23 13:29	05/07/23 16:27	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0108 - * DEFAULT PREP *** **										
Blank (P3E0108-BLK1)				Prepared & Analyzed: 05/01/23						
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*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.8*	*80-120*			
LCS (P3E0108-BS1)				Prepared & Analyzed: 05/01/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
LCS Dup (P3E0108-BSD1)				Prepared & Analyzed: 05/01/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	11.2	20	
Toluene	0.0968	0.00100	"	0.100		96.8	80-120	11.9	20	
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120	11.4	20	
Xylene (p/m)	0.183	0.00200	"	0.200		91.5	80-120	11.1	20	
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120	11.7	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Calibration Blank (P3E0108-CCB1)				Prepared & Analyzed: 05/01/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.9*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0108 - * DEFAULT PREP *** **										
Calibration Blank (P3E0108-CCB2)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.5*	*80-120*			
Calibration Check (P3E0108-CCV1)				Prepared & Analyzed: 05/01/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*88.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*75-125*			
Calibration Check (P3E0108-CCV2)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.0994	0.00100	mg/kg	0.100		99.4	80-120			
Toluene	0.0975	0.00100	"	0.100		97.5	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.4	80-120			
Xylene (o)	0.0919	0.00100	"	0.100		91.9	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P3E0108-CCV3)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*75-125*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0108 - * DEFAULT PREP *** **										
Matrix Spike (P3E0108-MS1)	**Source: 3E01008-01**			Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.103	0.00108	mg/kg dry	0.108	0.00162	94.0	80-120			
Toluene	0.0958	0.00108	"	0.108	0.00259	86.7	80-120			
Ethylbenzene	0.0852	0.00108	"	0.108	ND	79.2	80-120			QM-05
Xylene (p/m)	0.158	0.00215	"	0.215	ND	73.2	80-120			QM-05
Xylene (o)	0.0777	0.00108	"	0.108	ND	72.2	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.129*		*99.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.129*		*98.6*	*80-120*			
Matrix Spike Dup (P3E0108-MSD1)	**Source: 3E01008-01**			Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.100	0.00108	mg/kg dry	0.108	0.00162	91.8	80-120	2.30	20	
Toluene	0.0950	0.00108	"	0.108	0.00259	85.9	80-120	0.881	20	
Ethylbenzene	0.0790	0.00108	"	0.108	ND	73.4	80-120	7.58	20	QM-05
Xylene (p/m)	0.146	0.00215	"	0.215	ND	67.8	80-120	7.72	20	QM-05
Xylene (o)	0.0708	0.00108	"	0.108	ND	65.8	80-120	9.26	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.129*		*98.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.129*		*99.3*	*80-120*			
Batch P3E0202 - * DEFAULT PREP *** **										
Blank (P3E0202-BLK1)				Prepared & Analyzed: 05/02/23						
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	*0.118*		*"*	*0.120*		*98.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0202 - * DEFAULT PREP *** **										
LCS (P3E0202-BS1)				Prepared & Analyzed: 05/02/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.2	80-120			
Xylene (o)	0.0967	0.00100	"	0.100		96.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
LCS Dup (P3E0202-BSD1)				Prepared & Analyzed: 05/02/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	3.51	20	
Toluene	0.103	0.00100	"	0.100		103	80-120	0.507	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	1.89	20	
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120	1.39	20	
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120	0.0724	20	
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Calibration Blank (P3E0202-CCB1)				Prepared & Analyzed: 05/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			
Calibration Blank (P3E0202-CCB2)				Prepared & Analyzed: 05/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0202 - * DEFAULT PREP *** **										
Calibration Check (P3E0202-CCV1)				Prepared & Analyzed: 05/02/23						
Benzene	0.0915	0.00100	mg/kg	0.100		91.5	80-120			
Toluene	0.0881	0.00100	"	0.100		88.1	80-120			
Ethylbenzene	0.0847	0.00100	"	0.100		84.7	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		84.2	80-120			
Xylene (o)	0.0838	0.00100	"	0.100		83.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*75-125*			
Calibration Check (P3E0202-CCV2)				Prepared & Analyzed: 05/02/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0875	0.00100	"	0.100		87.5	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.0	80-120			
Xylene (o)	0.0895	0.00100	"	0.100		89.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.8*	*75-125*			
Calibration Check (P3E0202-CCV3)				Prepared & Analyzed: 05/02/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.0*	*75-125*			
Matrix Spike (P3E0202-MS1)	**Source: 3E01009-05**			Prepared & Analyzed: 05/02/23						
Benzene	0.0854	0.00105	mg/kg dry	0.105	ND	81.1	80-120			
Toluene	0.0786	0.00105	"	0.105	ND	74.7	80-120			QM-05
Ethylbenzene	0.0752	0.00105	"	0.105	ND	71.4	80-120			QM-05
Xylene (p/m)	0.142	0.00211	"	0.211	ND	67.5	80-120			QM-05
Xylene (o)	0.0694	0.00105	"	0.105	ND	65.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.126*		*99.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.126*		*102*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0202 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3E0202-MSD1)	**Source: 3E01009-05**			Prepared & Analyzed: 05/02/23						
Benzene	0.0745	0.00105	mg/kg dry	0.105	ND	70.8	80-120	13.5	20	QM-05
Toluene	0.0678	0.00105	"	0.105	ND	64.4	80-120	14.7	20	QM-05
Ethylbenzene	0.0631	0.00105	"	0.105	ND	59.9	80-120	17.5	20	QM-05
Xylene (p/m)	0.118	0.00211	"	0.211	ND	56.3	80-120	18.2	20	QM-05
Xylene (o)	0.0576	0.00105	"	0.105	ND	54.7	80-120	18.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.131*		*"*	*0.126*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.126*		*99.3*	*80-120*			
Batch P3E0203 - * DEFAULT PREP *** **										
Blank (P3E0203-BLK1)				Prepared & Analyzed: 05/02/23						
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	*0.112*		*"*	*0.120*		*93.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.6*	*80-120*			
LCS (P3E0203-BS1)				Prepared & Analyzed: 05/02/23						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120			
Xylene (o)	0.0995	0.00100	"	0.100		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.1*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0203 - * DEFAULT PREP *** **										
LCS Dup (P3E0203-BSD1)				Prepared & Analyzed: 05/02/23						
Benzene	0.0972	0.00100	mg/kg	0.100		97.2	80-120	12.3	20	
Toluene	0.0920	0.00100	"	0.100		92.0	80-120	13.6	20	
Ethylbenzene	0.0927	0.00100	"	0.100		92.7	80-120	13.3	20	
Xylene (p/m)	0.174	0.00200	"	0.200		86.9	80-120	12.6	20	
Xylene (o)	0.0868	0.00100	"	0.100		86.8	80-120	13.6	20	
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.4*	*80-120*			
Calibration Blank (P3E0203-CCB1)				Prepared & Analyzed: 05/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.4*	*80-120*			
Calibration Blank (P3E0203-CCB2)				Prepared: 05/02/23 Analyzed: 05/03/23						
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*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.9*	*80-120*			
Calibration Check (P3E0203-CCV1)				Prepared & Analyzed: 05/02/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.0*	*75-125*			

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P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0203 - * DEFAULT PREP *** **										
Calibration Check (P3E0203-CCV2)				Prepared: 05/02/23 Analyzed: 05/03/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.2*	*75-125*			
Calibration Check (P3E0203-CCV3)				Prepared: 05/02/23 Analyzed: 05/03/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		98.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.5*	*75-125*			
Matrix Spike (P3E0203-MS1)		**Source: 3E01009-25**		Prepared: 05/02/23 Analyzed: 05/03/23						
Benzene	0.0798	0.00102	mg/kg dry	0.102	ND	78.2	80-120			QM-05
Toluene	0.0772	0.00102	"	0.102	ND	75.7	80-120			QM-05
Ethylbenzene	0.0731	0.00102	"	0.102	ND	71.6	80-120			QM-05
Xylene (p/m)	0.134	0.00204	"	0.204	ND	65.6	80-120			QM-05
Xylene (o)	0.0640	0.00102	"	0.102	ND	62.7	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.122*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.122*		*99.3*	*80-120*			
Matrix Spike Dup (P3E0203-MSD1)		**Source: 3E01009-25**		Prepared: 05/02/23 Analyzed: 05/03/23						
Benzene	0.0788	0.00102	mg/kg dry	0.102	ND	77.2	80-120	1.20	20	QM-05
Toluene	0.0755	0.00102	"	0.102	ND	74.0	80-120	2.24	20	QM-05
Ethylbenzene	0.0703	0.00102	"	0.102	ND	68.9	80-120	3.91	20	QM-05
Xylene (p/m)	0.128	0.00204	"	0.204	ND	62.9	80-120	4.21	20	QM-05
Xylene (o)	0.0611	0.00102	"	0.102	ND	59.9	80-120	4.57	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.122*		*111*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.122*		*99.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0305 - * DEFAULT PREP *** **										
Blank (P3E0305-BLK1)				Prepared & Analyzed: 05/03/23						
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*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.1*	*80-120*			
LCS (P3E0305-BS1)				Prepared & Analyzed: 05/03/23						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0979	0.00100	"	0.100		97.9	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
LCS Dup (P3E0305-BSD1)				Prepared & Analyzed: 05/03/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120	2.32	20	
Toluene	0.109	0.00100	"	0.100		109	80-120	3.89	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	4.18	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120	3.66	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	3.62	20	
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P3E0305-CCB1)				Prepared & Analyzed: 05/03/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.8*	*80-120*			

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P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0305 - * DEFAULT PREP *** **										
Calibration Blank (P3E0305-CCB2)				Prepared & Analyzed: 05/03/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.0*	*80-120*			
Calibration Check (P3E0305-CCV1)				Prepared & Analyzed: 05/03/23						
Benzene	0.100	0.00100	mg/kg	0.100		100	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.0*	*75-125*			
Calibration Check (P3E0305-CCV2)				Prepared & Analyzed: 05/03/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*75-125*			
Calibration Check (P3E0305-CCV3)				Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	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	*0.119*		*"*	*0.120*		*99.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0305 - * DEFAULT PREP *** **										
Matrix Spike (P3E0305-MS1)	**Source: 3E03005-01**			Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.0524	0.00106	mg/kg dry	0.106	0.000872	48.4	80-120			QM-05
Toluene	0.0409	0.00106	"	0.106	0.00716	31.7	80-120			QM-05
Ethylbenzene	0.0210	0.00106	"	0.106	0.000755	19.0	80-120			QM-05
Xylene (p/m)	0.0400	0.00213	"	0.213	0.00295	17.4	80-120			QM-05
Xylene (o)	0.0186	0.00106	"	0.106	0.00140	16.2	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.128*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.128*		*86.5*	*80-120*			
Matrix Spike Dup (P3E0305-MSD1)	**Source: 3E03005-01**			Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.0551	0.00106	mg/kg dry	0.106	0.000872	51.0	80-120	5.19	20	QM-05
Toluene	0.0533	0.00106	"	0.106	0.00716	43.4	80-120	31.0	20	QM-05
Ethylbenzene	0.0172	0.00106	"	0.106	0.000755	15.4	80-120	20.8	20	QM-05
Xylene (p/m)	0.0360	0.00213	"	0.213	0.00295	15.5	80-120	11.6	20	QM-05
Xylene (o)	0.0149	0.00106	"	0.106	0.00140	12.7	80-120	24.1	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0828*		*"*	*0.128*		*64.9*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.141*		*"*	*0.128*		*111*	*80-120*			
Batch P3E0408 - * DEFAULT PREP *** **										
Blank (P3E0408-BLK1)				Prepared: 05/04/23 Analyzed: 05/05/23						
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	*0.114*		*"*	*0.120*		*94.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.1*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0408 - * DEFAULT PREP *** **										
LCS (P3E0408-BS1)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120			
Toluene	0.0986	0.00100	"	0.100		98.6	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		93.1	80-120			
Xylene (o)	0.0908	0.00100	"	0.100		90.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
LCS Dup (P3E0408-BSD1)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120	12.2	20	
Toluene	0.113	0.00100	"	0.100		113	80-120	13.7	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120	14.1	20	
Xylene (p/m)	0.213	0.00200	"	0.200		107	80-120	13.5	20	
Xylene (o)	0.104	0.00100	"	0.100		104	80-120	13.0	20	
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*80-120*			
Calibration Blank (P3E0408-CCB1)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
Calibration Blank (P3E0408-CCB2)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.5*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0408 - * DEFAULT PREP *** **										
Calibration Check (P3E0408-CCV1)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0994	0.00100	"	0.100		99.4	80-120			
Ethylbenzene	0.0955	0.00100	"	0.100		95.5	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.5	80-120			
Xylene (o)	0.0925	0.00100	"	0.100		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.4*	*75-125*			
Calibration Check (P3E0408-CCV2)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.115	0.00100	"	0.100		115	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)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Calibration Check (P3E0408-CCV3)				Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*100*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.6*	*75-125*			
Matrix Spike (P3E0408-MS1)	**Source: 3E04018-01**			Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.0903	0.00103	mg/kg dry	0.103	ND	87.6	80-120			
Toluene	0.0701	0.00103	"	0.103	ND	68.0	80-120			QM-05
Ethylbenzene	0.0527	0.00103	"	0.103	ND	51.1	80-120			QM-05
Xylene (p/m)	0.0947	0.00206	"	0.206	ND	45.9	80-120			QM-05
Xylene (o)	0.0455	0.00103	"	0.103	ND	44.2	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.124*		*99.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.124*		*103*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0408 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3E0408-MSD1)	**Source: 3E04018-01**			Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.0974	0.00103	mg/kg dry	0.103	ND	94.4	80-120	7.49	20	
Toluene	0.0775	0.00103	"	0.103	ND	75.2	80-120	10.1	20	QM-05
Ethylbenzene	0.0605	0.00103	"	0.103	ND	58.7	80-120	13.9	20	QM-05
Xylene (p/m)	0.109	0.00206	"	0.206	ND	52.9	80-120	14.1	20	QM-05
Xylene (o)	0.0522	0.00103	"	0.103	ND	50.6	80-120	13.7	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.124*		*99.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.124*		*103*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0114 - TX 1005										
Blank (P3E0114-BLK1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			
LCS (P3E0114-BS1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	945	25.0	mg/kg	1000		94.5	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*57.7*		*"*	*50.0*		*115*	*70-130*			
LCS Dup (P3E0114-BSD1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	926	25.0	mg/kg	1000		92.6	75-125	2.01	20	
>C12-C28	906	25.0	"	1000		90.6	75-125	3.63	20	
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*60.8*		*"*	*50.0*		*122*	*70-130*			
Calibration Check (P3E0114-CCV1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	468	25.0	mg/kg	500		93.7	85-115			
>C12-C28	467	25.0	"	500		93.3	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*56.6*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (P3E0114-CCV2)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	501	25.0	mg/kg	500		100	85-115			
>C12-C28	493	25.0	"	500		98.7	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0114 - TX 1005										
Calibration Check (P3E0114-CCV3)				Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	496	25.0	mg/kg	500		99.2	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*57.8*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3E0114-MS1)		**Source: 3E01009-16**		Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	911	26.3	mg/kg dry	1050	ND	86.5	75-125			
>C12-C28	903	26.3	"	1050	ND	85.7	75-125			
Surrogate: 1-Chlorooctane	*108*		*"*	*105*		*103*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*52.6*		*94.9*	*70-130*			
Matrix Spike Dup (P3E0114-MSD1)		**Source: 3E01009-16**		Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	927	26.3	mg/kg dry	1050	ND	88.0	75-125	1.74	20	
>C12-C28	920	26.3	"	1050	ND	87.4	75-125	1.88	20	
Surrogate: 1-Chlorooctane	*112*		*"*	*105*		*107*	*70-130*			
Surrogate: o-Terphenyl	*56.3*		*"*	*52.6*		*107*	*70-130*			
Batch P3E0208 - TX 1005										
Blank (P3E0208-BLK1)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*55.7*		*"*	*50.0*		*111*	*70-130*			
LCS (P3E0208-BS1)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	980	25.0	mg/kg	1000		98.0	75-125			
>C12-C28	824	25.0	"	1000		82.4	75-125			
Surrogate: 1-Chlorooctane	*126*		*"*	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*55.1*		*"*	*50.0*		*110*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0208 - TX 1005										
LCS Dup (P3E0208-BSD1)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	986	25.0	mg/kg	1000		98.6	75-125	0.587	20	
>C12-C28	845	25.0	"	1000		84.5	75-125	2.61	20	
Surrogate: 1-Chlorooctane	*125*		*"*	*100*		*125*	*70-130*			
Surrogate: o-Terphenyl	*54.0*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (P3E0208-CCV1)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	517	25.0	mg/kg	500		103	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*55.5*		*"*	*50.0*		*111*	*70-130*			
Calibration Check (P3E0208-CCV2)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	511	25.0	mg/kg	500		102	85-115			
>C12-C28	445	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*57.3*		*"*	*50.0*		*115*	*70-130*			
Calibration Check (P3E0208-CCV3)				Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	521	25.0	mg/kg	500		104	85-115			
>C12-C28	465	25.0	"	500		93.1	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*55.8*		*"*	*50.0*		*112*	*70-130*			
Matrix Spike (P3E0208-MS1)		**Source: 3E01009-36**		Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	821	25.5	mg/kg dry	1020	ND	80.4	75-125			
>C12-C28	744	25.5	"	1020	97.2	63.3	75-125			QM-05
Surrogate: 1-Chlorooctane	*94.3*		*"*	*102*		*92.5*	*70-130*			
Surrogate: o-Terphenyl	*44.9*		*"*	*51.0*		*88.1*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0208 - TX 1005										
Matrix Spike Dup (P3E0208-MSD1)	**Source: 3E01009-36**			Prepared: 05/02/23 Analyzed: 05/04/23						
C6-C12	877	25.5	mg/kg dry	1020	ND	86.0	75-125	6.67	20	
>C12-C28	802	25.5	"	1020	97.2	69.1	75-125	8.69	20	QM-05
Surrogate: 1-Chlorooctane	*102*		*"*	*102*		*99.6*	*70-130*			
Surrogate: o-Terphenyl	*48.6*		*"*	*51.0*		*95.3*	*70-130*			
Batch P3E0209 - TX 1005										
Blank (P3E0209-BLK1)				Prepared: 05/02/23 Analyzed: 05/09/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*98.5*		*"*	*100*		*98.5*	*70-130*			
Surrogate: o-Terphenyl	*55.2*		*"*	*50.0*		*110*	*70-130*			
LCS (P3E0209-BS1)				Prepared: 05/02/23 Analyzed: 05/09/23						
C6-C12	920	25.0	mg/kg	1000		92.0	75-125			
>C12-C28	915	25.0	"	1000		91.5	75-125			
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*54.6*		*"*	*50.0*		*109*	*70-130*			
LCS Dup (P3E0209-BSD1)				Prepared: 05/02/23 Analyzed: 05/09/23						
C6-C12	928	25.0	mg/kg	1000		92.8	75-125	0.819	20	
>C12-C28	904	25.0	"	1000		90.4	75-125	1.22	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*52.9*		*"*	*50.0*		*106*	*70-130*			
Calibration Check (P3E0209-CCV1)				Prepared: 05/02/23 Analyzed: 05/09/23						
C6-C12	482	25.0	mg/kg	500		96.4	85-115			
>C12-C28	460	25.0	"	500		92.1	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*55.5*		*"*	*50.0*		*111*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0209 - TX 1005										
Calibration Check (P3E0209-CCV2)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	518	25.0	mg/kg	500		104	85-115			
>C12-C28	507	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3E0209-MS1)	**Source: 3E01009-56**			Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	790	25.5	mg/kg dry	1020	ND	77.4	75-125			
>C12-C28	767	25.5	"	1020	ND	75.2	75-125			
Surrogate: 1-Chlorooctane	*107*		*"*	*102*		*105*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		*"*	*51.0*		*92.1*	*70-130*			
Matrix Spike Dup (P3E0209-MSD1)	**Source: 3E01009-56**			Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	788	25.5	mg/kg dry	1020	ND	77.2	75-125	0.206	20	
>C12-C28	694	25.5	"	1020	ND	68.0	75-125	9.93	20	QM-05
Surrogate: 1-Chlorooctane	*106*		*"*	*102*		*104*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		*"*	*51.0*		*91.4*	*70-130*			
Batch P3E0210 - TX 1005										
Blank (P3E0210-BLK1)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*103*		*"*	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		*"*	*50.0*		*116*	*70-130*			
LCS (P3E0210-BS1)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	942	25.0	mg/kg	1000		94.2	75-125			
>C12-C28	957	25.0	"	1000		95.7	75-125			
Surrogate: 1-Chlorooctane	*130*		*"*	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*63.2*		*"*	*50.0*		*126*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0210 - TX 1005										
LCS Dup (P3E0210-BSD1)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	960	25.0	mg/kg	1000		96.0	75-125	1.98	20	
>C12-C28	950	25.0	"	1000		95.0	75-125	0.638	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*55.9*		*"*	*50.0*		*112*	*70-130*			
Calibration Check (P3E0210-CCV1)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	518	25.0	mg/kg	500		104	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	*117*		*"*	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*58.2*		*"*	*50.0*		*116*	*70-130*			
Calibration Check (P3E0210-CCV2)				Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	484	25.0	mg/kg	500		96.8	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*57.8*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3E0210-MS1)		**Source: 3E01009-67**		Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	831	26.6	mg/kg dry	1060	ND	78.1	75-125			
>C12-C28	811	26.6	"	1060	ND	76.2	75-125			
Surrogate: 1-Chlorooctane	*111*		*"*	*106*		*104*	*70-130*			
Surrogate: o-Terphenyl	*53.8*		*"*	*53.2*		*101*	*70-130*			
Matrix Spike Dup (P3E0210-MSD1)		**Source: 3E01009-67**		Prepared: 05/02/23 Analyzed: 05/10/23						
C6-C12	833	26.6	mg/kg dry	1060	ND	78.3	75-125	0.150	20	
>C12-C28	806	26.6	"	1060	ND	75.8	75-125	0.621	20	
Surrogate: 1-Chlorooctane	*113*		*"*	*106*		*106*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		*"*	*53.2*		*103*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0201 - * DEFAULT PREP *** **										
Blank (P3E0201-BLK1)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK2)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK3)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK4)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Duplicate (P3E0201-DUP1)		**Source: 3E01009-12**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		5.0			85.7	20	R3
Duplicate (P3E0201-DUP2)		**Source: 3E01009-02**		Prepared & Analyzed: 05/02/23						
% Moisture	5.0	0.1	%		2.0			85.7	20	R3
Duplicate (P3E0201-DUP3)		**Source: 3E01009-27**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P3E0201-DUP4)		**Source: 3E01009-37**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3E0201-DUP5)		**Source: 3E01009-52**		Prepared & Analyzed: 05/02/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3E0201-DUP6)		**Source: 3E01009-62**		Prepared & Analyzed: 05/02/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0201 - * DEFAULT PREP *** **										
Duplicate (P3E0201-DUP7)		**Source: 3E01010-08**		Prepared & Analyzed: 05/02/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3E0201-DUP8)		**Source: 3E01013-03**		Prepared & Analyzed: 05/02/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3E0201-DUP9)		**Source: 3E01011-09**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P3E0201-DUPA)		**Source: 3E01011-19**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P3E0215 - * DEFAULT PREP *** **										
Blank (P3E0215-BLK1)				Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0215-BS1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.2		mg/kg	18.4		104	90-110			
LCS Dup (P3E0215-BSD1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.3		mg/kg	18.4		105	90-110	0.478	10	
Calibration Check (P3E0215-CCV1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	18.3		mg/kg	18.0		102	90-110			
Calibration Check (P3E0215-CCV2)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.1		mg/kg	18.0		106	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0215 - * DEFAULT PREP *** **										
Matrix Spike (P3E0215-MS1)	**Source: 3D28017-07**			Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	138		mg/kg	100	38.5	99.1	80-120			
Matrix Spike (P3E0215-MS2)	**Source: 3E01006-04**			Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	87.4		mg/kg	100	0.198	87.2	80-120			
Matrix Spike Dup (P3E0215-MSD1)	**Source: 3D28017-07**			Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	139		mg/kg	100	38.5	101	80-120	1.28	20	
Matrix Spike Dup (P3E0215-MSD2)	**Source: 3E01006-04**			Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	91.6		mg/kg	100	0.198	91.4	80-120	4.72	20	
Batch P3E0406 - * DEFAULT PREP *** **										
Blank (P3E0406-BLK1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0406-BS1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	18.4		mg/kg	18.4		99.9	90-110			
Calibration Check (P3E0406-CCV1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.2		mg/kg	18.0		106	90-110			
Calibration Check (P3E0406-CCV2)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.2		mg/kg	18.0		107	90-110			
Calibration Check (P3E0406-CCV3)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.1		mg/kg	18.0		106	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0406 - * DEFAULT PREP *** **										
Matrix Spike (P3E0406-MS1)	**Source: 3E01009-10**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	91.8		mg/kg	100	2.55	89.3	80-120			
Matrix Spike (P3E0406-MS2)	**Source: 3E01009-20**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	42.7		mg/kg	50.0	-0.0650	85.5	80-120			
Matrix Spike Dup (P3E0406-MSD1)	**Source: 3E01009-10**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	91.9		mg/kg	100	2.55	89.4	80-120	0.116	20	
Matrix Spike Dup (P3E0406-MSD2)	**Source: 3E01009-20**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	85.1		mg/kg	100	-0.0650	85.1	80-120	66.3	20	QR-03
Batch P3E0407 - * DEFAULT PREP *** **										
Blank (P3E0407-BLK1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0407-BS1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.4		mg/kg	18.0		108	90-110			
LCS Dup (P3E0407-BSD1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.5		mg/kg	18.0		108	90-110	0.273	10	
Calibration Check (P3E0407-CCV1)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.3		mg/kg	18.0		107	90-110			
Calibration Check (P3E0407-CCV2)				Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	19.9		mg/kg	18.0		110	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0407 - * DEFAULT PREP *** **										
Matrix Spike (P3E0407-MS1)	**Source: 3E01009-30**			Prepared: 05/04/23 Analyzed: 05/08/23						
Chloride	50.2		mg/kg	10.0	37.0	132	80-120			QM-05
Matrix Spike (P3E0407-MS2)	**Source: 3E01009-40**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	181		mg/kg	100	111	71.0	80-120			QM-05
Matrix Spike Dup (P3E0407-MSD1)	**Source: 3E01009-30**			Prepared: 05/04/23 Analyzed: 05/08/23						
Chloride	50.4		mg/kg	10.0	37.0	135	80-120	0.429	20	QM-05
Matrix Spike Dup (P3E0407-MSD2)	**Source: 3E01009-40**			Prepared: 05/04/23 Analyzed: 05/06/23						
Chloride	196		mg/kg	100	111	85.7	80-120	7.80	20	
Batch P3E0501 - * DEFAULT PREP *** **										
Blank (P3E0501-BLK1)				Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0501-BS1)				Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	20.3		mg/kg	20.0		102	90-110			
LCS Dup (P3E0501-BSD1)				Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	19.9		mg/kg	20.0		99.3	90-110	2.41	10	
Calibration Check (P3E0501-CCV1)				Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	19.8		mg/kg	20.0		99.1	90-110			
Calibration Check (P3E0501-CCV2)				Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	20.5		mg/kg	20.0		102	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0501 - * DEFAULT PREP *** **										
Matrix Spike (P3E0501-MS1)	**Source: 3E01009-50**			Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	262		mg/kg	100	122	140	80-120			QM-05
Matrix Spike (P3E0501-MS2)	**Source: 3E01009-60**			Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	97.4		mg/kg	100	12.0	85.3	80-120			
Matrix Spike Dup (P3E0501-MSD1)	**Source: 3E01009-50**			Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	254		mg/kg	100	122	133	80-120	2.86	20	QM-05
Matrix Spike Dup (P3E0501-MSD2)	**Source: 3E01009-60**			Prepared: 05/05/23 Analyzed: 05/07/23						
Chloride	95.0		mg/kg	100	12.0	82.9	80-120	2.51	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC1	Surrogate recovery outside of control limits. A second analysis confirmed the original results..
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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: Brent Barron Date: 5/11/2023

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Brent Barron, Laboratory Director/Technical Director

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Nº 1922

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/1/2023 PAGE 1 OF 4

PO#: LAB WORK ORDER#: 3E01009

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-17 2'	1	4/25/23	1300	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-54 2'	2		1304	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-55 2'	3		1306	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-56 2'	4		1308	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-66 2'	5		1340	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-70 3'	6		1342	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-74 2'	7		1344	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-85 2'	8		1346	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-51 3'	9	4/26/23	1120	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-89 3'	10		1122	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-90 3'	11		1124	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-91 3'	12		1126	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-92 3'	13		1128	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-93 3'	14		1130	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
C-94 3'	15		1132	S	1				X		BTEX, GRO, DRO, ORO, CHLORIDE	
TOTAL	15											

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel Gonzalez	5/1/23 9:07	Mia Belmont
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.4 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
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Nº 192

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/1/2023 PAGE 2 OF

PO#: LAB WORK ORDER#: 3E01009

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-0 COLLECTOR: BSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-95 3'	16	4/26/23	1134	S	1				X		X			X	X	X													X		
C-96 3'	17		1136	S	1				X		X			X	X	X													X		
C-100 3'	18		1144	S	1				X		X			X	X	X													X		
C-101 3'	19		1146	S	1				X		X			X	X	X													X		
C-102 3'	20		1148	S	1				X		X			X	X	X													X		
C-103 3'	21		1150	S	1				X		X			X	X	X													X		
C-104 3'	22		1152	S	1				X		X			X	X	X													X		
C-107 4.1'	23	4/27/23	1010	S	1				X		X			X	X	X													X		
C-109 4.1'	24		1012	S	1				X		X			X	X	X													X		
C-205 0-4.1	25		1014	S	1				X		X			X	X	X													X		
C-212 2'	26		1250	S	1				X		X			X	X	X													X		
C-213 2'	27		1252	S	1				X		X			X	X	X													X		
C-214 2'	28		1254	S	1				X		X			X	X	X													X		
C-215 2'	29		1256	S	1				X		X			X	X	X													X		
C-216 2'	30		1258	S	1				X		X			X	X	X													X		
TOTAL 15																														

RELINQUISHED BY:(Signature) Daniel Stephens DATE/TIME 5/1/23 9:17 RECEIVED BY: (Signature) Trina Baeza

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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№ 1924

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 5/1/23 PAGE 3 OF

PO#: LAB WORK ORDER#: 3E01009

PROJECT LOCATION OR NAME: Piny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSL

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-217 2'	31	4/27/23	1300	S	1				X		X			X	X	X														X	
C-218 2'	32		1302	S	1				X		X			X	X	X														X	
C-219 2'	33		1304	S	1				X		X			X	X	X														X	
C-220 2'	34		1306	S	1				X		X			X	X	X														X	
C-221 2'	35		1308	S	1				X		X			X	X	X														X	
C-222 2'	36		1310	S	1				X		X			X	X	X														X	
C-223 2'	37		1312	S	1				X		X			X	X	X														X	
C-224 2'	38		1314	S	1				X		X			X	X	X														X	
C-225 2'	39		1316	S	1				X		X			X	X	X														X	
C-226 2'	40		1318	S	1				X		X			X	X	X														X	
C-227 2'	41		1320	S	1				X		X			X	X	X														X	
C-97 4.1	42		1352	S	1				X		X			X	X	X														X	
C-98 4.1	43		1354	S	1				X		X			X	X	X														X	
C-99 4.1	44		1356	S	1				X		X			X	X	X														X	
C-105 4.1	45	"	1354	S	1				X		X			X	X	X														X	
TOTAL 15																															

RELINQUISHED BY:(Signature) Daniel Gallegos DATE/TIME 5/1/23 9:13 RECEIVED BY:(Signature) Jenna Bledsoe

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.4 THERM#: NCF13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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№ 1925

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 4 OF 4

PO#: LAB WORK ORDER#: 3E01009

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-199B 0-3'	46	4/27/23	1442	S	1				X		X		X	X	X														X	
C-200 0-3'	47	4/27/23	1444	S	1				X		X		X	X	X														X	
C-228 4.1	48	4/28/23		S	1				X		X		X	X	X														X	
C-229 4.1	49	"		S	1				X		X		X	X	X														X	
C-230 4.1	50			S	1				X		X		X	X	X														X	
C-231 4.1	51			S	1				X		X		X	X	X														X	
C-232 4.1	52			S	1				X		X		X	X	X														X	
C-233 0-4.1	53			S	1				X		X		X	X	X														X	
C-234 4.1	54			S	1				X		X		X	X	X														X	
C-235 4.1	55			S	1				X		X		X	X	X														X	
C-236 4.1	56			S	1				X		X		X	X	X														X	
C-237 4.1	57			S	1				X		X		X	X	X														X	
C-238 4.1	58			S	1				X		X		X	X	X														X	
C-239 4.1	59			S	1				X		X		X	X	X														X	
C-240 4.1	60	"		S	1				X		X		X	X	X														X	
TOTAL 15																														

RELINQUISHED BY:(Signature) Dan Moir DATE/TIME 5/11/23 9:05 RECEIVED BY:(Signature) Nina Bledsoe

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
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№ 1926

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 5 OF

PO#: LAB WORK ORDER#: 3E01009

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNF/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-241 4.1	61	4/28/23	0904	S	1				X		X	
C-242 4.1	62		0906	S	1				X		X	
C-243 4.1	63		0908	S	1				X		X	
C-244 0-4.1	64		0910	S	1				X		X	
C-245 0-4.1	65		0912	S	1				X		X	
C-199H 0-4.1	66		0930	S	1				X		X	
C-203 0-4.1	67		0932	S	1				X		X	

TOTAL 7

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

Daniel Gomez 5/11/23 9:13 Trina Bloom

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

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

LABORATORY: PBEL

TURN AROUND TIME

NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 4 THERM#: NCF 13

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #

☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3E05006

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/18/23

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-110 @ 3'	3E05006-01	Soil	05/01/23 12:20	05-05-2023 08:48
C-112 @ 3'	3E05006-02	Soil	05/01/23 12:22	05-05-2023 08:48
C-127 @ 3'	3E05006-03	Soil	05/01/23 12:24	05-05-2023 08:48
C-133 @ 3'	3E05006-04	Soil	05/01/23 12:26	05-05-2023 08:48
C-134 @ 3'	3E05006-05	Soil	05/01/23 12:28	05-05-2023 08:48
C-135 @ 3'	3E05006-06	Soil	05/01/23 12:30	05-05-2023 08:48
C-136 @ 3'	3E05006-07	Soil	05/01/23 12:32	05-05-2023 08:48
C-138 @ 3'	3E05006-08	Soil	05/01/23 12:34	05-05-2023 08:48
C-139 @ 3'	3E05006-09	Soil	05/01/23 12:36	05-05-2023 08:48
C-140 @ 3'	3E05006-10	Soil	05/01/23 12:38	05-05-2023 08:48
C-159 @ 3'	3E05006-11	Soil	05/01/23 12:40	05-05-2023 08:48
C-160 @ 3'	3E05006-12	Soil	05/01/23 12:42	05-05-2023 08:48
C-161 @ 3'	3E05006-13	Soil	05/01/23 12:44	05-05-2023 08:48
C-162 @ 3'	3E05006-14	Soil	05/01/23 12:46	05-05-2023 08:48
C-113 @ 3'	3E05006-15	Soil	05/02/23 08:30	05-05-2023 08:48
C-114	3E05006-16	Soil	05/02/23 08:32	05-05-2023 08:48
C-121	3E05006-17	Soil	05/02/23 08:34	05-05-2023 08:48
C-122	3E05006-18	Soil	05/02/23 08:36	05-05-2023 08:48
C-123	3E05006-19	Soil	05/02/23 08:38	05-05-2023 08:48
C-132	3E05006-20	Soil	05/02/23 08:40	05-05-2023 08:48
C-133	3E05006-21	Soil	05/02/23 08:42	05-05-2023 08:48
C-142	3E05006-22	Soil	05/02/23 08:44	05-05-2023 08:48
C-143	3E05006-23	Soil	05/02/23 08:46	05-05-2023 08:48
C-146	3E05006-24	Soil	05/02/23 08:52	05-05-2023 08:48
C-147	3E05006-25	Soil	05/02/23 08:54	05-05-2023 08:48
C-148	3E05006-26	Soil	05/02/23 08:56	05-05-2023 08:48
C-149	3E05006-27	Soil	05/02/23 08:58	05-05-2023 08:48
C-150	3E05006-28	Soil	05/02/23 09:00	05-05-2023 08:48
C-151	3E05006-29	Soil	05/02/23 09:02	05-05-2023 08:48
C-152	3E05006-30	Soil	05/02/23 09:04	05-05-2023 08:48
C-153 @ 3'	3E05006-31	Soil	05/02/23 09:06	05-05-2023 08:48
C-154 @ 3'	3E05006-32	Soil	05/02/23 09:08	05-05-2023 08:48
C-155 @ 3'	3E05006-33	Soil	05/02/23 09:10	05-05-2023 08:48
C-156 @ 3'	3E05006-34	Soil	05/02/23 13:00	05-05-2023 08:48

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-157 @ 3'	3E05006-35	Soil	05/02/23 13:02	05-05-2023 08:48
C-163 @ 3'	3E05006-36	Soil	05/02/23 13:04	05-05-2023 08:48
C-164 @ 3'	3E05006-37	Soil	05/02/23 13:06	05-05-2023 08:48
C-165 @ 3'	3E05006-38	Soil	05/02/23 13:08	05-05-2023 08:48
C-166 @ 3'	3E05006-39	Soil	05/02/23 13:10	05-05-2023 08:48
C-167 @ 3'	3E05006-40	Soil	05/02/23 13:12	05-05-2023 08:48
C-168 @ 3'	3E05006-41	Soil	05/02/23 13:14	05-05-2023 08:48
C-169 @ 3'	3E05006-42	Soil	05/02/23 13:16	05-05-2023 08:48
C-246 @ 3'	3E05006-43	Soil	05/03/23 08:02	05-05-2023 08:48
C-247 @ 3'	3E05006-44	Soil	05/03/23 08:04	05-05-2023 08:48
C-158 @ 3'	3E05006-45	Soil	05/03/23 08:06	05-05-2023 08:48
C-144 @ 4.1'	3E05006-46	Soil	05/03/23 09:00	05-05-2023 08:48
C-145 @ 4.1'	3E05006-47	Soil	05/03/23 09:02	05-05-2023 08:48
C-170 @ 3'	3E05006-48	Soil	05/03/23 11:00	05-05-2023 08:48
C-171 @ 3'	3E05006-49	Soil	05/03/23 11:02	05-05-2023 08:48
C-172 @ 3'	3E05006-50	Soil	05/03/23 11:04	05-05-2023 08:48
C-173 @ 3'	3E05006-51	Soil	05/03/23 11:06	05-05-2023 08:48
C-174 @ 3'	3E05006-52	Soil	05/03/23 11:08	05-05-2023 08:48
C-175 @ 3'	3E05006-53	Soil	05/03/23 11:40	05-05-2023 08:48
C-176 @ 3'	3E05006-54	Soil	05/03/23 11:42	05-05-2023 08:48
C-178 @ 3'	3E05006-55	Soil	05/03/23 11:46	05-05-2023 08:48
C-179 @ 3'	3E05006-56	Soil	05/03/23 11:48	05-05-2023 08:48
C-180 @ 3'	3E05006-57	Soil	05/03/23 12:20	05-05-2023 08:48
C-181 @ 3'	3E05006-58	Soil	05/03/23 12:22	05-05-2023 08:48
C-182 @ 3'	3E05006-59	Soil	05/03/23 12:24	05-05-2023 08:48
C-183 @ 3'	3E05006-60	Soil	05/03/23 12:26	05-05-2023 08:48

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-110 @ 3'

3E05006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:33	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:33	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:33	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:33	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 21:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 21:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 03:46	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 03:46	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 03:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.5 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 03:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.7 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 03:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 03:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**18.0**	1.08	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 20:47	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-112 @ 3'

3E05006-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:53	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:53	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:53	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:53	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 21:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 21:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 21:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 04:10	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 04:10	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 04:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.3 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 04:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.4 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 04:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 04:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**40.0**	1.09	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 21:01	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-127 @ 3'

3E05006-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:14	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:14	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:14	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:14	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:22	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:22	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.3 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 05:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.1 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 05:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 05:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**65.5**	1.08	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 21:15	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-133 @ 3'

3E05006-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:34	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:34	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:34	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:34	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:34*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:46	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:46	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 05:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.9 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 05:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.6 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 05:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 05:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**185**	1.09	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 21:30	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-134 @ 3'

3E05006-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:55	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:55	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:55	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:55	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0512	05/05/23 16:22	05/06/23 22:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.3 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E0512*	*05/05/23 16:22*	*05/06/23 22:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:11	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:11	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.2 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.9 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 06:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**41.2**	1.09	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 21:44	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-135 @ 3'

3E05006-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:29	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:29	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:29	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:29	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 14:29*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 14:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:35	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:35	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.9 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.5 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 06:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**425**	1.08	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 21:58	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-136 @ 3'

3E05006-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:50	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:50	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:50	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:50	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 14:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 14:50*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 14:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:59	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:59	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 06:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.7 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.0 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 06:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 06:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**58.1**	1.08	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 22:13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-138 @ 3'

3E05006-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:11	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:11	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:11	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:11	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:24	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:24	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.0 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 07:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.6 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 07:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 07:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**57.3**	1.10	mg/kg dry	1	P3E0810	05/08/23 13:21	05/09/23 22:27	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-139 @ 3'

3E05006-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:32	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:32	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:32	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:32	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:32*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:48	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:48	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 07:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.9 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 07:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.2 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 07:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 07:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**160**	1.06	mg/kg dry	1	P3E0815	05/08/23 15:42	05/09/23 11:55	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-140 @ 3'

3E05006-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:53	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:53	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:53	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:53	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 15:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 15:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:13	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:13	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.0 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 08:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.1 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 08:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 08:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**203**	1.08	mg/kg dry	1	P3E0815	05/08/23 15:42	05/09/23 12:09	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-159 @ 3'

3E05006-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:14	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:14	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:14	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:14	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 16:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 16:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:37	TPH 8015M	
>C12-C28	**131**	25.8	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:37	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 08:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.8 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 08:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.7 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 08:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**131**	25.8	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 08:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**234**	1.03	mg/kg dry	1	P3E0815	05/08/23 15:42	05/09/23 12:23	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-160 @ 3'

3E05006-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:35	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:35	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:35	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:35	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 16:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 16:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 16:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 09:01	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 09:01	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0811	05/08/23 13:00	05/14/23 09:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.9 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 09:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.7 %*	*70-130*		*P3E0811*	*05/08/23 13:00*	*05/14/23 09:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/08/23 13:00	05/14/23 09:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**124**	1.05	mg/kg dry	1	P3E0815	05/08/23 15:42	05/09/23 12:38	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-161 @ 3'

3E05006-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 22:59	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 22:59	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 22:59	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 22:59	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 22:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 22:59*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 22:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 12:38	TPH 8015M	
>C12-C28	**43.9**	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 12:38	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 12:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.9 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 12:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.1 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 12:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**43.9**	25.8	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 12:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**496**	1.03	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 00:00	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-162 @ 3'

3E05006-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 23:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 23:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:02	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:02	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.7 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 13:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**50.5**	1.06	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 00:14	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-113 @ 3'

3E05006-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 17:38	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 17:38	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 17:38	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 17:38	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 17:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 17:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 17:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:26	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:26	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.3 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 13:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**70.8**	1.10	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 00:28	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-114

3E05006-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 18:41	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 18:41	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 18:41	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 18:41	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 18:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 18:41*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 18:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:50	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:50	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 13:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 13:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 13:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**59.0**	1.09	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 00:43	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-121

3E05006-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:02	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:02	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:02	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:02	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.6 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:14	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:14	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.0 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 14:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.9 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 14:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 14:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**53.5**	1.09	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 00:57	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-122

3E05006-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:22	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:22	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:22	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:38	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:38	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 14:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 14:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.9 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 14:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 14:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**167**	1.08	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 01:11	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-123

3E05006-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:43	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:43	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:43	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:43	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 19:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 19:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:01	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:01	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.6 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 15:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**130**	1.09	mg/kg dry	1	P3E1002	05/10/23 10:09	05/11/23 01:26	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-132

3E05006-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:04	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:04	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:04	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:04	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:25	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:25	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.1 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 15:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**136**	1.08	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 12:13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-133

3E05006-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:24	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:24	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:24	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:24	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:49	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:49	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 15:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.7 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.7 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 15:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 15:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**74.3**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 12:56	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-142

3E05006-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:45	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:45	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:45	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:45	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 20:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 20:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 16:12	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 16:12	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 16:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.0 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 16:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.2 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 16:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 16:12	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**422**	1.05	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 13:10	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-143

3E05006-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 21:06	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 21:06	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 21:06	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 21:06	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0805	05/08/23 10:11	05/08/23 21:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 21:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/08/23 21:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:24	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:24	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*70.1 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 17:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.3 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 17:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 17:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**497**	1.05	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 13:25	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-146

3E05006-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:03	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:03	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:03	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:03	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/09/23 09:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.6 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/09/23 09:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:48	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:48	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 17:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 17:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.9 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 17:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 17:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**60.6**	1.02	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 13:39	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-147

3E05006-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:24	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:24	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:24	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:24	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0805	05/08/23 10:11	05/09/23 09:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/09/23 09:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3E0805*	*05/08/23 10:11*	*05/09/23 09:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:11	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:11	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.2 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.9 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 18:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**174**	1.03	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 14:09	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-148

3E05006-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:10	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:10	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:10	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:10	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:35	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:35	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.6 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 18:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**85.1**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 14:24	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-149

3E05006-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:31	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:31	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:31	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:31	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:59	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:59	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 18:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.3 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.0 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 18:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 18:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.4**	1.08	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 14:38	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-150

3E05006-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:52	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:52	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:52	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:52	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 12:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 12:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 19:23	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 19:23	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.3 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 19:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.0 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 19:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 19:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**20.0**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 14:52	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-151

3E05006-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:14	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:14	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:14	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:14	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 19:46	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/15/23 09:37	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 19:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*66.3 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/15/23 09:37*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl		*76.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/15/23 09:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/15/23 09:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**21.0**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 15:07	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-152

3E05006-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:35	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:35	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:35	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:35	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:10	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:10	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.4 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 20:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.9**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 15:50	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-153 @ 3'

3E05006-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:56	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:56	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:56	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:56	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 13:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:56*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 13:56*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:33	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:33	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.2 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 20:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**64.6**	1.05	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 16:33	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-154 @ 3'

3E05006-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:17	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 14:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 14:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:57	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:57	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E0813	05/08/23 15:00	05/14/23 20:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.5 %*	*70-130*		*P3E0813*	*05/08/23 15:00*	*05/14/23 20:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/08/23 15:00	05/14/23 20:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.5**	1.06	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 16:47	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-155 @ 3'

3E05006-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:39	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:39	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:39	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:39	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 14:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 14:39*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 14:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 03:46	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 03:46	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 03:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.9 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 03:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 03:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 03:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**78.1**	1.05	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 17:01	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-156 @ 3'

3E05006-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:00	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:00	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:00	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:00	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 15:00*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 15:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:09	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:09	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.7 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.0 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 04:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**383**	1.02	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 17:16	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-157 @ 3'

3E05006-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:21	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:21	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:21	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:21	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 15:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 15:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 15:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:33	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:33	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.5 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.9 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 04:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**201**	1.04	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 17:30	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-163 @ 3'

3E05006-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:25	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:25	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:25	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:25	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 16:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 16:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:57	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:57	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 04:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.7 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 04:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 04:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**167**	1.02	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 17:45	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-164 @ 3'

3E05006-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:46	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:46	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:46	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:46	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 16:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 16:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.3 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 16:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:22	TPH 8015M	
>C12-C28	**88.3**	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:22	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 05:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.0 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 05:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**88.3**	25.3	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 05:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**455**	1.01	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 17:59	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-165 @ 3'

3E05006-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:07	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:07	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:07	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:07	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:46	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:46	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 05:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*70.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 05:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*75.5 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 05:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 05:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**64.9**	1.01	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 18:13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-166 @ 3'

3E05006-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:28	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:28	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:28	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:28	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*96.9 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:10	TPH 8015M	
>C12-C28	**101**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:10	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.2 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**101**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 06:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**168**	1.02	mg/kg dry	1	P3E1104	05/11/23 08:00	05/11/23 18:28	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-167 @ 3'

3E05006-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:48	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:48	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:48	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:48	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 17:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:48*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 17:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:34	TPH 8015M	
>C12-C28	**288**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:34	TPH 8015M	
>C28-C35	**39.8**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.9 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.6 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**328**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 06:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**222**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 19:54	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-168 @ 3'

3E05006-41 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:09	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:09	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:09	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:09	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:09*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:09*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:58	TPH 8015M	
>C12-C28	**66.8**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:58	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 06:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.8 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 06:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**66.8**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 06:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**241**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 20:37	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-169 @ 3'

3E05006-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:30	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:30	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:30	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:30	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 07:21	TPH 8015M	
>C12-C28	**105**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 07:21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 07:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.8 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 07:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.9 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 07:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**105**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 07:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**246**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 20:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-246 @ 3'

3E05006-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:51	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:51	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:51	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:51	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 18:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 18:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:34	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:34	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.7 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 08:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.5 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 08:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 08:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**141**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 21:05	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-247 @ 3'

3E05006-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:12	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:12	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:12	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:12	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 19:12*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 19:12*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:57	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:57	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 08:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.3 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 08:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 08:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 08:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**79.4**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 21:20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-158 @ 3'

3E05006-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:33	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:33	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:33	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:33	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0806	05/08/23 10:16	05/09/23 19:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.1 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 19:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0806*	*05/08/23 10:16*	*05/09/23 19:33*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:21	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:21	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 09:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.2 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 09:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 09:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**163**	1.04	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 21:34	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-144 @ 4.1'

3E05006-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:40	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:40	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:40	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:40	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/09/23 23:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 23:40*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/09/23 23:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:45	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:45	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 09:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 09:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 09:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 09:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**115**	1.09	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 21:48	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-145 @ 4.1'

3E05006-47 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:00	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:00	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:00	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:00	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:09	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:09	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*70.3 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*78.3 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 10:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**373**	1.09	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 22:03	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-170 @ 3'

3E05006-48 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:21	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:21	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:21	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:21	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:33	TPH 8015M	
>C12-C28	**98.1**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:33	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.8 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.0 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**98.1**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 10:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**335**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 22:17	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-171 @ 3'

3E05006-49 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:41	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:41	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:41	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:41	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 00:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:41*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 00:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:56	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:56	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 10:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 10:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 10:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**375**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 22:31	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-172 @ 3'

3E05006-50 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:02	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:02	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:02	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:02	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:02*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:20	TPH 8015M	
>C12-C28	**145**	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 11:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.4 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 11:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**145**	25.8	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 11:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**453**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 23:14	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-173 @ 3'

3E05006-51 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:22	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:22	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:22	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:22	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:22*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:44	TPH 8015M	
>C12-C28	**212**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:44	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 11:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.3 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 11:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 11:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**212**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 11:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**238**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/11/23 23:57	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-174 @ 3'

3E05006-52 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:43	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:43	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:43	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:43	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 01:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 01:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 12:08	TPH 8015M	
>C12-C28	**41.7**	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 12:08	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0814	05/08/23 15:19	05/16/23 12:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.1 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 12:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.3 %*	*70-130*		*P3E0814*	*05/08/23 15:19*	*05/16/23 12:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**41.7**	25.5	mg/kg dry	1	[CALC]	05/08/23 15:19	05/16/23 12:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**55.5**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 00:11	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-175 @ 3'

3E05006-53 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 02:44	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 02:44	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 02:44	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 02:44	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 02:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 02:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 02:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:33	TPH 8015M	
>C12-C28	**157**	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:33	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 05:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 05:33*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**157**	25.5	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 05:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**190**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 00:25	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-176 @ 3'

3E05006-54 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:04	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:04	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:04	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:04	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.9 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:57	TPH 8015M	
>C12-C28	**65.9**	26.0	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:57	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 05:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.2 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 05:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.4 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 05:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**65.9**	26.0	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 05:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**176**	1.04	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 00:40	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-178 @ 3'

3E05006-55 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:25	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:25	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:25	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:25	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:21	TPH 8015M	
>C12-C28	**45.3**	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:21	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.8 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 06:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.5 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 06:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**45.3**	25.3	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 06:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**78.1**	1.01	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 00:54	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-179 @ 3'

3E05006-56 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:45	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:45	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:45	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:45	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 03:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:45*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 03:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:45	TPH 8015M	
>C12-C28	**205**	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:45	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 06:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.5 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 06:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.7 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 06:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**205**	25.3	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 06:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**120**	1.01	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 01:08	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-180 @ 3'

3E05006-57 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:06	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:06	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:06	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:06	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:09	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:09	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.4 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 07:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**36.1**	1.02	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 01:23	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-181 @ 3'

3E05006-58 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:27	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:27	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:27	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:27	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:33	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:33	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.2 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.0 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 07:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**179**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 01:37	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-182 @ 3'

3E05006-59 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:47	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:47	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:47	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:47	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 04:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 04:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:57	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:57	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 07:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.7 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 07:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 07:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**127**	1.03	mg/kg dry	1	P3E1105	05/11/23 15:04	05/12/23 01:51	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-183 @ 3'

3E05006-60 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 05:08	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 05:08	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 05:08	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 05:08	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E0908	05/09/23 15:04	05/10/23 05:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 05:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E0908*	*05/09/23 15:04*	*05/10/23 05:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 08:21	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 08:21	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E0904	05/09/23 11:35	05/18/23 08:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 08:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.2 %*	*70-130*		*P3E0904*	*05/09/23 11:35*	*05/18/23 08:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/09/23 11:35	05/18/23 08:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**123**	1.03	mg/kg dry	1	P3E1106	05/11/23 15:06	05/12/23 03:18	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E0804	05/08/23 08:47	05/08/23 08:55	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0512 - * DEFAULT PREP *** **										
Blank (P3E0512-BLK1)				Prepared: 05/05/23 Analyzed: 05/06/23						
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*		*95.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.1*	*80-120*			
LCS (P3E0512-BS1)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.100	0.00100	mg/kg	0.100		100	80-120			
Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.0871	0.00100	"	0.100		87.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
LCS Dup (P3E0512-BSD1)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120	14.0	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	14.2	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	14.4	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120	13.4	20	
Xylene (o)	0.100	0.00100	"	0.100		100	80-120	14.3	20	
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P3E0512-CCB1)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.6*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0512 - * DEFAULT PREP *** **										
Calibration Blank (P3E0512-CCB2)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			
Calibration Check (P3E0512-CCV1)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	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)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.4*	*75-125*			
Calibration Check (P3E0512-CCV2)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0916	0.00100	"	0.100		91.6	80-120			
Ethylbenzene	0.0834	0.00100	"	0.100		83.4	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		82.1	80-120			
Xylene (o)	0.0858	0.00100	"	0.100		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.120*		*90.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.8*	*75-125*			
Calibration Check (P3E0512-CCV3)				Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*99.7*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0512 - * DEFAULT PREP *** **										
Matrix Spike (P3E0512-MS1)	**Source: 3E04011-02**			Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.117	0.00114	mg/kg dry	0.114	ND	103	80-120			
Toluene	0.104	0.00114	"	0.114	ND	91.3	80-120			
Ethylbenzene	0.0984	0.00114	"	0.114	ND	86.5	80-120			
Xylene (p/m)	0.174	0.00227	"	0.227	ND	76.4	80-120			QM-05
Xylene (o)	0.0904	0.00114	"	0.114	ND	79.6	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.135*		*"*	*0.136*		*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.136*		*100*	*80-120*			
Matrix Spike Dup (P3E0512-MSD1)	**Source: 3E04011-02**			Prepared: 05/05/23 Analyzed: 05/06/23						
Benzene	0.119	0.00114	mg/kg dry	0.114	ND	104	80-120	1.00	20	
Toluene	0.104	0.00114	"	0.114	ND	91.9	80-120	0.633	20	
Ethylbenzene	0.0991	0.00114	"	0.114	ND	87.2	80-120	0.725	20	
Xylene (p/m)	0.179	0.00227	"	0.227	ND	78.6	80-120	2.83	20	QM-05
Xylene (o)	0.0906	0.00114	"	0.114	ND	79.7	80-120	0.151	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.135*		*"*	*0.136*		*99.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.134*		*"*	*0.136*		*98.6*	*80-120*			
Batch P3E0805 - * DEFAULT PREP *** **										
Blank (P3E0805-BLK1)				Prepared & Analyzed: 05/08/23						
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*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0805 - * DEFAULT PREP *** **										
LCS (P3E0805-BS1)				Prepared & Analyzed: 05/08/23						
Benzene	0.101	0.00100	mg/kg	0.100		101	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
LCS Dup (P3E0805-BSD1)				Prepared & Analyzed: 05/08/23						
Benzene	0.101	0.00100	mg/kg	0.100		101	80-120	0.505	20	
Toluene	0.102	0.00100	"	0.100		102	80-120	1.42	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	2.16	20	
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120	2.29	20	
Xylene (o)	0.0969	0.00100	"	0.100		96.9	80-120	1.80	20	
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Calibration Blank (P3E0805-CCB1)				Prepared & Analyzed: 05/08/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.111*		*"*	*0.120*		*92.9*	*80-120*			
Calibration Blank (P3E0805-CCB2)				Prepared & Analyzed: 05/08/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.0*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0805 - * DEFAULT PREP *** **										
Calibration Check (P3E0805-CCV1)				Prepared & Analyzed: 05/08/23						
Benzene	0.0956	0.00100	mg/kg	0.100		95.6	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0809	0.00100	"	0.100		80.9	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.4	80-120			
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*94.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*75-125*			
Calibration Check (P3E0805-CCV2)				Prepared & Analyzed: 05/08/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.5	80-120			
Xylene (o)	0.0954	0.00100	"	0.100		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.3*	*75-125*			
Calibration Check (P3E0805-CCV3)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.0965	0.00100	"	0.100		96.5	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		94.0	80-120			
Xylene (o)	0.0961	0.00100	"	0.100		96.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*75-125*			
Matrix Spike (P3E0805-MS1)		**Source: 3E05006-06**		Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.0902	0.00108	mg/kg dry	0.108	ND	83.9	80-120			
Toluene	0.0829	0.00108	"	0.108	ND	77.1	80-120			QM-05
Ethylbenzene	0.0612	0.00108	"	0.108	ND	56.9	80-120			QM-05
Xylene (p/m)	0.144	0.00215	"	0.215	ND	67.0	80-120			QM-05
Xylene (o)	0.0733	0.00108	"	0.108	ND	68.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.129*		*98.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.129*		*105*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0805 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3E0805-MSD1)	**Source: 3E05006-06**			Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.0884	0.00108	mg/kg dry	0.108	ND	82.2	80-120	1.99	20	
Toluene	0.0815	0.00108	"	0.108	ND	75.8	80-120	1.69	20	QM-05
Ethylbenzene	0.0544	0.00108	"	0.108	ND	50.6	80-120	11.8	20	QM-05
Xylene (p/m)	0.139	0.00215	"	0.215	ND	64.5	80-120	3.82	20	QM-05
Xylene (o)	0.0725	0.00108	"	0.108	ND	67.4	80-120	1.02	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.139*		*"*	*0.129*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.129*		*98.3*	*80-120*			
Batch P3E0806 - * DEFAULT PREP *** **										
Blank (P3E0806-BLK1)				Prepared: 05/08/23 Analyzed: 05/09/23						
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	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.9*	*80-120*			
LCS (P3E0806-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.0971	0.00100	"	0.100		97.1	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		89.8	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0806 - * DEFAULT PREP *** **										
LCS Dup (P3E0806-BSD1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.0940	0.00100	mg/kg	0.100		94.0	80-120	9.37	20	
Toluene	0.0888	0.00100	"	0.100		88.8	80-120	9.10	20	
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120	8.67	20	
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	80-120	7.84	20	
Xylene (o)	0.0841	0.00100	"	0.100		84.1	80-120	9.44	20	
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.0*	*80-120*			
Calibration Blank (P3E0806-CCB1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.9*	*80-120*			
Calibration Blank (P3E0806-CCB2)				Prepared: 05/08/23 Analyzed: 05/09/23						
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*		*90.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*93.8*	*80-120*			
Calibration Check (P3E0806-CCV1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.0965	0.00100	"	0.100		96.5	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		94.0	80-120			
Xylene (o)	0.0961	0.00100	"	0.100		96.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.8*	*75-125*			

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P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0806 - * DEFAULT PREP *** **										
Calibration Check (P3E0806-CCV2)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.0866	0.00100	"	0.100		86.6	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.3	80-120			
Xylene (o)	0.0897	0.00100	"	0.100		89.7	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*93.9*	*75-125*			
Calibration Check (P3E0806-CCV3)				Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0937	0.00100	"	0.100		93.7	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.5	80-120			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.0*	*75-125*			
Matrix Spike (P3E0806-MS1)		**Source: 3E05006-26**		Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.0946	0.00106	mg/kg dry	0.106	ND	88.9	80-120			
Toluene	0.0836	0.00106	"	0.106	ND	78.6	80-120			QM-05
Ethylbenzene	0.0514	0.00106	"	0.106	ND	48.3	80-120			QM-05
Xylene (p/m)	0.147	0.00213	"	0.213	ND	69.1	80-120			QM-05
Xylene (o)	0.0774	0.00106	"	0.106	ND	72.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.128*		*99.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.128*		*99.7*	*80-120*			
Matrix Spike Dup (P3E0806-MSD1)		**Source: 3E05006-26**		Prepared: 05/08/23 Analyzed: 05/09/23						
Benzene	0.0648	0.00106	mg/kg dry	0.106	ND	60.9	80-120	37.4	20	QM-05
Toluene	0.0573	0.00106	"	0.106	ND	53.9	80-120	37.3	20	QM-05
Ethylbenzene	0.0329	0.00106	"	0.106	ND	30.9	80-120	44.0	20	QM-05
Xylene (p/m)	0.105	0.00213	"	0.213	ND	49.4	80-120	33.4	20	QM-05
Xylene (o)	0.0557	0.00106	"	0.106	ND	52.3	80-120	32.6	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.128*		*96.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.131*		"	*0.128*		*103*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0908 - * DEFAULT PREP *** **										
Blank (P3E0908-BLK1)				Prepared & Analyzed: 05/09/23						
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	*0.110*		"	*0.120*		*92.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.7*	*80-120*			
LCS (P3E0908-BS1)				Prepared & Analyzed: 05/09/23						
Benzene	0.0951	0.00100	mg/kg	0.100		95.1	80-120			
Toluene	0.0942	0.00100	"	0.100		94.2	80-120			
Ethylbenzene	0.0960	0.00100	"	0.100		96.0	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.7	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*80-120*			
LCS Dup (P3E0908-BSD1)				Prepared & Analyzed: 05/09/23						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120	13.2	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	14.0	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	14.2	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120	13.7	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	13.9	20	
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*98.8*	*80-120*			
Calibration Blank (P3E0908-CCB1)				Prepared & Analyzed: 05/09/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.0*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0908 - * DEFAULT PREP *** **										
Calibration Blank (P3E0908-CCB2)				Prepared: 05/09/23 Analyzed: 05/10/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.112*		*"*	*0.120*		*93.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.4*	*80-120*			
Calibration Check (P3E0908-CCV1)				Prepared & Analyzed: 05/09/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0937	0.00100	"	0.100		93.7	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.5	80-120			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*75-125*			
Calibration Check (P3E0908-CCV2)				Prepared: 05/09/23 Analyzed: 05/10/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.0908	0.00100	"	0.100		90.8	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.4	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*75-125*			
Calibration Check (P3E0908-CCV3)				Prepared: 05/09/23 Analyzed: 05/10/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*104*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E0908 - * DEFAULT PREP *** **										
Matrix Spike (P3E0908-MS1)	**Source: 3E09011-01**			Prepared: 05/09/23 Analyzed: 05/10/23						
Benzene	0.0625	0.00101	mg/kg dry	0.101	ND	61.9	80-120			
Toluene	0.0432	0.00101	"	0.101	0.00572	37.1	80-120			
Ethylbenzene	0.0314	0.00101	"	0.101	0.0209	10.4	80-120			
Xylene (p/m)	0.0719	0.00202	"	0.202	0.0716	0.170	80-120			
Xylene (o)	0.0323	0.00101	"	0.101	0.0258	6.41	80-120			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.121*		*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.121*		*116*	*80-120*			
Matrix Spike Dup (P3E0908-MSD1)	**Source: 3E09011-01**			Prepared: 05/09/23 Analyzed: 05/10/23						
Benzene	0.0614	0.00101	mg/kg dry	0.101	ND	60.8	80-120	1.79	20	
Toluene	0.0315	0.00101	"	0.101	0.00572	25.5	80-120	36.9	20	
Ethylbenzene	0.0209	0.00101	"	0.101	0.0209	0.00	80-120		20	
Xylene (p/m)	0.0519	0.00202	"	0.202	0.0716	NR	80-120	NR	20	
Xylene (o)	0.0236	0.00101	"	0.101	0.0258	NR	80-120	NR	20	
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.121*		*114*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.121*		*98.4*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0811 - TX 1005										
Blank (P3E0811-BLK1)				Prepared: 05/08/23 Analyzed: 05/13/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*84.2*		"	*100*		*84.2*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		"	*50.0*		*93.4*	*70-130*			
LCS (P3E0811-BS1)				Prepared: 05/08/23 Analyzed: 05/13/23						
C6-C12	976	25.0	mg/kg	1000		97.6	75-125			
>C12-C28	871	25.0	"	1000		87.1	75-125			
Surrogate: 1-Chlorooctane	*113*		"	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		"	*50.0*		*107*	*70-130*			
LCS Dup (P3E0811-BSD1)				Prepared: 05/08/23 Analyzed: 05/13/23						
C6-C12	966	25.0	mg/kg	1000		96.6	75-125	1.00	20	
>C12-C28	873	25.0	"	1000		87.3	75-125	0.305	20	
Surrogate: 1-Chlorooctane	*112*		"	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*52.5*		"	*50.0*		*105*	*70-130*			
Calibration Check (P3E0811-CCV1)				Prepared: 05/08/23 Analyzed: 05/13/23						
C6-C12	485	25.0	mg/kg	500		97.0	85-115			
>C12-C28	460	25.0	"	500		92.1	85-115			
Surrogate: 1-Chlorooctane	*94.6*		"	*100*		*94.6*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		"	*50.0*		*95.3*	*70-130*			
Calibration Check (P3E0811-CCV2)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	487	25.0	mg/kg	500		97.3	85-115			
>C12-C28	498	25.0	"	500		99.5	85-115			
Surrogate: 1-Chlorooctane	*96.8*		"	*100*		*96.8*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		"	*50.0*		*93.4*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0811 - TX 1005										
Matrix Spike (P3E0811-MS1)	**Source: 3E05006-12**			Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	881	26.3	mg/kg dry	1050	10.5	82.7	75-125			
>C12-C28	814	26.3	"	1050	17.4	75.6	75-125			
Surrogate: 1-Chlorooctane	*85.2*		*"*	*105*		*80.9*	*70-130*			
Surrogate: o-Terphenyl	*39.9*		*"*	*52.6*		*75.8*	*70-130*			
Matrix Spike Dup (P3E0811-MSD1)	**Source: 3E05006-12**			Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	951	26.3	mg/kg dry	1050	10.5	89.4	75-125	7.78	20	
>C12-C28	894	26.3	"	1050	17.4	83.3	75-125	9.64	20	
Surrogate: 1-Chlorooctane	*92.9*		*"*	*105*		*88.3*	*70-130*			
Surrogate: o-Terphenyl	*40.7*		*"*	*52.6*		*77.3*	*70-130*			
Batch P3E0813 - TX 1005										
Blank (P3E0813-BLK1)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*83.1*		*"*	*100*		*83.1*	*70-130*			
Surrogate: o-Terphenyl	*47.6*		*"*	*50.0*		*95.2*	*70-130*			
LCS (P3E0813-BS1)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	976	25.0	mg/kg	1000		97.6	75-125			
>C12-C28	897	25.0	"	1000		89.7	75-125			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*56.8*		*"*	*50.0*		*114*	*70-130*			
LCS Dup (P3E0813-BSD1)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	975	25.0	mg/kg	1000		97.5	75-125	0.0851	20	
>C12-C28	879	25.0	"	1000		87.9	75-125	1.96	20	
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*55.2*		*"*	*50.0*		*110*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0813 - TX 1005										
Calibration Check (P3E0813-CCV1)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	493	25.0	mg/kg	500		98.7	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*95.9*		*"*	*100*		*95.9*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Calibration Check (P3E0813-CCV2)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	491	25.0	mg/kg	500		98.2	85-115			
>C12-C28	494	25.0	"	500		98.8	85-115			
Surrogate: 1-Chlorooctane	*97.6*		*"*	*100*		*97.6*	*70-130*			
Surrogate: o-Terphenyl	*48.8*		*"*	*50.0*		*97.5*	*70-130*			
Calibration Check (P3E0813-CCV3)				Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	499	25.0	mg/kg	500		99.8	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*97.7*		*"*	*100*		*97.7*	*70-130*			
Surrogate: o-Terphenyl	*49.3*		*"*	*50.0*		*98.6*	*70-130*			
Matrix Spike (P3E0813-MS1)		**Source: 3E05006-32**		Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	1090	26.6	mg/kg dry	1060	15.1	101	75-125			
>C12-C28	986	26.6	"	1060	ND	92.7	75-125			
Surrogate: 1-Chlorooctane	*108*		*"*	*106*		*102*	*70-130*			
Surrogate: o-Terphenyl	*53.1*		*"*	*53.2*		*99.9*	*70-130*			
Matrix Spike Dup (P3E0813-MSD1)		**Source: 3E05006-32**		Prepared: 05/08/23 Analyzed: 05/14/23						
C6-C12	1230	26.6	mg/kg dry	1060	15.1	114	75-125	12.3	20	
>C12-C28	1140	26.6	"	1060	ND	107	75-125	14.3	20	
Surrogate: 1-Chlorooctane	*124*		*"*	*106*		*117*	*70-130*			
Surrogate: o-Terphenyl	*58.3*		*"*	*53.2*		*110*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0814 - TX 1005										
Blank (P3E0814-BLK1)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.0*		*"*	*100*		*86.0*	*70-130*			
Surrogate: o-Terphenyl	*48.2*		*"*	*50.0*		*96.4*	*70-130*			
LCS (P3E0814-BS1)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	977	25.0	mg/kg	1000		97.7	75-125			
>C12-C28	863	25.0	"	1000		86.3	75-125			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*56.1*		*"*	*50.0*		*112*	*70-130*			
LCS Dup (P3E0814-BSD1)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	1070	25.0	mg/kg	1000		107	75-125	8.72	20	
>C12-C28	951	25.0	"	1000		95.1	75-125	9.69	20	
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*53.1*		*"*	*50.0*		*106*	*70-130*			
Calibration Check (P3E0814-CCV1)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	494	25.0	mg/kg	500		98.8	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*96.9*		*"*	*100*		*96.9*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Calibration Check (P3E0814-CCV2)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	506	25.0	mg/kg	500		101	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*50.9*		*"*	*50.0*		*102*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0814 - TX 1005										
Calibration Check (P3E0814-CCV3)				Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	511	25.0	mg/kg	500		102	85-115			
>C12-C28	521	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*101*		*"*	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*50.0*		*100*	*70-130*			
Matrix Spike (P3E0814-MS1)		**Source: 3E05006-52**		Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	941	25.5	mg/kg dry	1020	10.6	91.1	75-125			
>C12-C28	882	25.5	"	1020	41.7	82.3	75-125			
Surrogate: 1-Chlorooctane	*107*		*"*	*102*		*105*	*70-130*			
Surrogate: o-Terphenyl	*51.4*		*"*	*51.0*		*101*	*70-130*			
Matrix Spike Dup (P3E0814-MSD1)		**Source: 3E05006-52**		Prepared: 05/08/23 Analyzed: 05/16/23						
C6-C12	942	25.5	mg/kg dry	1020	10.6	91.3	75-125	0.161	20	
>C12-C28	877	25.5	"	1020	41.7	81.9	75-125	0.492	20	
Surrogate: 1-Chlorooctane	*108*		*"*	*102*		*106*	*70-130*			
Surrogate: o-Terphenyl	*52.4*		*"*	*51.0*		*103*	*70-130*			
Batch P3E0904 - TX 1005										
Blank (P3E0904-BLK1)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*84.0*		*"*	*100*		*84.0*	*70-130*			
Surrogate: o-Terphenyl	*45.8*		*"*	*50.0*		*91.6*	*70-130*			
LCS (P3E0904-BS1)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	970	25.0	mg/kg	1000		97.0	75-125			
>C12-C28	788	25.0	"	1000		78.8	75-125			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.8*		*"*	*50.0*		*106*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0904 - TX 1005										
LCS Dup (P3E0904-BSD1)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	1040	25.0	mg/kg	1000		104	75-125	6.52	20	
>C12-C28	893	25.0	"	1000		89.3	75-125	12.5	20	
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*48.9*		*"*	*50.0*		*97.9*	*70-130*			
Calibration Check (P3E0904-CCV1)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	490	25.0	mg/kg	500		97.9	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Calibration Check (P3E0904-CCV2)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	515	25.0	mg/kg	500		103	85-115			
>C12-C28	507	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*53.1*		*"*	*50.0*		*106*	*70-130*			
Calibration Check (P3E0904-CCV3)				Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	515	25.0	mg/kg	500		103	85-115			
>C12-C28	509	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
Matrix Spike (P3E0904-MS1)	**Source: 3E09005-06**			Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	1200	25.5	mg/kg dry	1020	11.0	117	75-125			
>C12-C28	1180	25.5	"	1020	11.3	114	75-125			
Surrogate: 1-Chlorooctane	*132*		*"*	*102*		*129*	*70-130*			
Surrogate: o-Terphenyl	*66.4*		*"*	*51.0*		*130*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0904 - TX 1005										
Matrix Spike Dup (P3E0904-MSD1)	**Source: 3E09005-06**			Prepared: 05/09/23 Analyzed: 05/18/23						
C6-C12	1050	25.5	mg/kg dry	1020	11.0	102	75-125	13.2	20	
>C12-C28	957	25.5	"	1020	11.3	92.7	75-125	20.7	20	QM-05
Surrogate: 1-Chlorooctane	*122*		*"*	*102*		*120*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		*"*	*51.0*		*105*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0804 - * DEFAULT PREP *** **										
Blank (P3E0804-BLK1)				Prepared & Analyzed: 05/08/23						
% Moisture	ND	0.1	%							
Blank (P3E0804-BLK2)				Prepared & Analyzed: 05/08/23						
% Moisture	ND	0.1	%							
Blank (P3E0804-BLK3)				Prepared & Analyzed: 05/08/23						
% Moisture	ND	0.1	%							
Blank (P3E0804-BLK4)				Prepared & Analyzed: 05/08/23						
% Moisture	ND	0.1	%							
Blank (P3E0804-BLK5)				Prepared & Analyzed: 05/08/23						
% Moisture	ND	0.1	%							
Duplicate (P3E0804-DUP1)	**Source: 3E05006-02**			Prepared & Analyzed: 05/08/23						
% Moisture	14.0	0.1	%		8.0			54.5	20	R3
Duplicate (P3E0804-DUP2)	**Source: 3E05003-08**			Prepared & Analyzed: 05/08/23						
% Moisture	9.0	0.1	%		14.0			43.5	20	R3
Duplicate (P3E0804-DUP3)	**Source: 3E05006-17**			Prepared & Analyzed: 05/08/23						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P3E0804-DUP4)	**Source: 3E05006-27**			Prepared & Analyzed: 05/08/23						
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P3E0804-DUP5)	**Source: 3E05006-42**			Prepared & Analyzed: 05/08/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0804 - * DEFAULT PREP *** **										
Duplicate (P3E0804-DUP6)	**Source: 3E05006-52**			Prepared & Analyzed: 05/08/23						
% Moisture	1.0	0.1	%		2.0			66.7	20	R3
Duplicate (P3E0804-DUP7)	**Source: 3E05009-06**			Prepared & Analyzed: 05/08/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3E0804-DUP8)	**Source: 3E05012-03**			Prepared & Analyzed: 05/08/23						
% Moisture	12.0	0.1	%		11.0			8.70	20	
Batch P3E0810 - * DEFAULT PREP *** **										
Blank (P3E0810-BLK1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0810-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.0		mg/kg	20.0		95.2	90-110			
LCS Dup (P3E0810-BSD1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.2		mg/kg	20.0		96.0	90-110	0.832	10	
Calibration Check (P3E0810-CCV1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	18.9		mg/kg	20.0		94.6	90-110			
Calibration Check (P3E0810-CCV2)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.2		mg/kg	20.0		95.8	90-110			
Matrix Spike (P3E0810-MS1)	**Source: 3E08002-07**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	132		mg/kg	100	27.2	105	80-120			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0810 - * DEFAULT PREP *** **										
Matrix Spike (P3E0810-MS2)	**Source: 3E05003-13**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	51.6		mg/kg	50.0	3.63	96.0	80-120			
Matrix Spike Dup (P3E0810-MSD1)	**Source: 3E08002-07**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	133		mg/kg	100	27.2	106	80-120	0.453	20	
Matrix Spike Dup (P3E0810-MSD2)	**Source: 3E05003-13**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	52.3		mg/kg	50.0	3.63	97.3	80-120	1.27	20	
Batch P3E0815 - * DEFAULT PREP *** **										
Blank (P3E0815-BLK1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0815-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	18.6		mg/kg	20.0		93.2	90-110			
LCS Dup (P3E0815-BSD1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.5		mg/kg	20.0		97.6	90-110	4.67	10	
Calibration Check (P3E0815-CCV1)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	18.6		mg/kg	20.0		93.2	90-110			
Calibration Check (P3E0815-CCV2)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.1		mg/kg	20.0		95.7	90-110			
Calibration Check (P3E0815-CCV3)				Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	19.2		mg/kg	20.0		95.8	90-110			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E0815 - * DEFAULT PREP *** **										
Matrix Spike (P3E0815-MS1)	**Source: 3E08008-09**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	82.6		mg/kg	50.0	29.3	107	80-120			
Matrix Spike (P3E0815-MS2)	**Source: 3E08008-23**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	119		mg/kg	100	23.3	95.2	80-120			
Matrix Spike Dup (P3E0815-MSD1)	**Source: 3E08008-09**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	72.7		mg/kg	50.0	29.3	86.7	80-120	12.8	20	
Matrix Spike Dup (P3E0815-MSD2)	**Source: 3E08008-23**			Prepared: 05/08/23 Analyzed: 05/09/23						
Chloride	116		mg/kg	100	23.3	92.8	80-120	2.10	20	
Batch P3E1002 - * DEFAULT PREP *** **										
Blank (P3E1002-BLK1)				Prepared & Analyzed: 05/10/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E1002-BS1)				Prepared & Analyzed: 05/10/23						
Chloride	19.2		mg/kg	20.0		96.0	90-110			
LCS Dup (P3E1002-BSD1)				Prepared & Analyzed: 05/10/23						
Chloride	19.1		mg/kg	20.0		95.7	90-110	0.349	10	
Calibration Check (P3E1002-CCV1)				Prepared & Analyzed: 05/10/23						
Chloride	19.6		mg/kg	20.0		98.2	90-110			
Calibration Check (P3E1002-CCV2)				Prepared & Analyzed: 05/10/23						
Chloride	19.5		mg/kg	20.0		97.7	90-110			

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P.O. Box 50685	Project Number: 22-0107-02
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 P3E1002 - * DEFAULT PREP *** **										
Matrix Spike (P3E1002-MS1)	**Source: 3E09015-01**			Prepared & Analyzed: 05/10/23						
Chloride	128		mg/kg	100	30.2	98.0	80-120			
Matrix Spike (P3E1002-MS2)	**Source: 3E09015-04**			Prepared & Analyzed: 05/10/23						
Chloride	164		mg/kg	100	56.8	107	80-120			
Matrix Spike Dup (P3E1002-MSD1)	**Source: 3E09015-01**			Prepared & Analyzed: 05/10/23						
Chloride	129		mg/kg	100	30.2	99.3	80-120	1.01	20	
Matrix Spike Dup (P3E1002-MSD2)	**Source: 3E09015-04**			Prepared & Analyzed: 05/10/23						
Chloride	164		mg/kg	100	56.8	107	80-120	0.306	20	
Batch P3E1104 - * DEFAULT PREP *** **										
Blank (P3E1104-BLK1)				Prepared & Analyzed: 05/11/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E1104-BS1)				Prepared & Analyzed: 05/11/23						
Chloride	17.7		mg/kg	18.4		96.2	90-110			
Calibration Check (P3E1104-CCV1)				Prepared & Analyzed: 05/11/23						
Chloride	17.8		mg/kg	18.0		98.6	90-110			
Calibration Check (P3E1104-CCV2)				Prepared & Analyzed: 05/11/23						
Chloride	17.6		mg/kg	18.0		97.5	90-110			
Matrix Spike (P3E1104-MS1)	**Source: 3E05006-20**			Prepared & Analyzed: 05/11/23						
Chloride	60.8		mg/kg	50.0	12.7	96.3	80-120			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1104 - * DEFAULT PREP *** **										
Matrix Spike (P3E1104-MS2)	**Source: 3E05006-30**			Prepared & Analyzed: 05/11/23						
Chloride	45.5		mg/kg	50.0	1.87	87.2	80-120			
Matrix Spike Dup (P3E1104-MSD1)	**Source: 3E05006-20**			Prepared & Analyzed: 05/11/23						
Chloride	56.3		mg/kg	50.0	12.7	87.2	80-120	7.73	20	
Matrix Spike Dup (P3E1104-MSD2)	**Source: 3E05006-30**			Prepared & Analyzed: 05/11/23						
Chloride	42.4		mg/kg	50.0	1.87	81.0	80-120	7.05	20	
Batch P3E1105 - * DEFAULT PREP *** **										
Blank (P3E1105-BLK1)				Prepared & Analyzed: 05/11/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E1105-BS1)				Prepared & Analyzed: 05/11/23						
Chloride	17.3		mg/kg	18.4		94.2	90-110			
Calibration Check (P3E1105-CCV1)				Prepared & Analyzed: 05/11/23						
Chloride	17.8		mg/kg	18.0		99.2	90-110			
Calibration Check (P3E1105-CCV2)				Prepared & Analyzed: 05/11/23						
Chloride	18.0		mg/kg	18.0		100	90-110			
Matrix Spike (P3E1105-MS1)	**Source: 3E05006-40**			Prepared & Analyzed: 05/11/23						
Chloride	67.4		mg/kg	50.0	21.8	91.4	80-120			
Matrix Spike (P3E1105-MS2)	**Source: 3E05006-50**			Prepared & Analyzed: 05/11/23						
Chloride	80.9		mg/kg	50.0	44.0	73.9	80-120			QM-05

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1105 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3E1105-MSD1)	**Source: 3E05006-40**			Prepared & Analyzed: 05/11/23						
Chloride	67.0		mg/kg	50.0	21.8	90.4	80-120	0.707	20	
Matrix Spike Dup (P3E1105-MSD2)	**Source: 3E05006-50**			Prepared & Analyzed: 05/11/23						
Chloride	86.9		mg/kg	50.0	44.0	85.9	80-120	7.17	20	
Batch P3E1106 - * DEFAULT PREP *** **										
Blank (P3E1106-BLK1)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E1106-BS1)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	17.6		mg/kg	18.4		95.5	90-110			
LCS Dup (P3E1106-BSD1)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	17.9		mg/kg	18.4		97.2	90-110	1.73	10	
Calibration Check (P3E1106-CCV1)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	17.2		mg/kg	18.0		95.8	90-110			
Calibration Check (P3E1106-CCV2)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	17.3		mg/kg	18.0		96.1	90-110			
Calibration Check (P3E1106-CCV3)				Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	18.6		mg/kg	20.0		92.9	90-110			
Matrix Spike (P3E1106-MS1)	**Source: 3E05006-60**			Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	54.5		mg/kg	50.0	11.9	85.2	80-120			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1106 - * DEFAULT PREP *** **										
Matrix Spike (P3E1106-MS2)	**Source: 3E11002-01**			Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	127		mg/kg	100	26.9	99.9	80-120			
Matrix Spike Dup (P3E1106-MSD1)	**Source: 3E05006-60**			Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	55.3		mg/kg	50.0	11.9	86.8	80-120	1.46	20	
Matrix Spike Dup (P3E1106-MSD2)	**Source: 3E11002-01**			Prepared: 05/11/23 Analyzed: 05/12/23						
Chloride	128		mg/kg	100	26.9	101	80-120	0.717	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: Brent Barron Date: 5/18/2023

Brent Barron, Laboratory Director/Technical Director

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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№ 1928

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/3/23 PAGE 1 OF 4

PO#: LAB WORK ORDER#: 3E05006

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-110 3	1	5/1/23	1220	S	1				X		X		X	X	X														X			
C-112 3	2		1222	S	1				X		X		X	X	X														X			
C-127 3	3		1224	S	1				X		X		X	X	X														X			
C-133 3	4		1226	S	1				X		X		X	X	X														X			
C-134 3	5		1228	S	1				X		X		X	X	X														X			
C-135 3	6		1230	S	1				X		X		X	X	X														X			
C-136 3	7		1232	S	1				X		X		X	X	X														X			
C-138 3	8		1234	S	1				X		X		X	X	X														X			
C-139 3	9		1236	S	1				X		X		X	X	X														X			
C-140 3	10		1238	S	1				X		X		X	X	X														X			
C-159 3	11		1240	S	1				X		X		X	X	X														X			
C-160 3	12		1242	S	1				X		X		X	X	X														X			
C-161 3	13		1244	S	1				X		X		X	X	X														X			
C-162 3	14	"	1246	S	1				X		X		X	X	X														X			
C-113 3	15	5/2/23	0830	S	1				X		X		X	X	X														X			
TOTAL 15																																

RELINQUISHED BY:(Signature) Ramona Rather DATE/TIME 5/5/23 0848 RECEIVED BY: (Signature) Nina Bearse

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -12.5 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

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№ 1929

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: _____ PAGE 2 OF 4

PO#: _____ LAB WORK ORDER#: 3E05006

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-114	16	5/2/23	0832	S	1				X		X			X	X	X													X	
C-121	17		0834																											
C-122	18		0836																											
C-123	19		0838																											
C-132	20		0840																											
C-133	21		0842																											
C-142	22		0844																											
C-143	23		0846																											
C-146	24		0852																											
C-147	25		0854																											
C-148	26		0856																											
C-149	27		0858																											
C-150	28		0900																											
C-151	29		0902																											
C-152	30		0904																											
TOTAL	15																													

RELINQUISHED BY:(Signature) DATE/TIME 5/5/23 0848 RECEIVED BY: (Signature)

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -1.2.5 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Page 992 of 1437

№ 1930

CHAIN-OF-CUSTODY

Page 94 of 95

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: _____ PAGE 3 OF 4

PO#: _____ LAB WORK ORDER#: 3E05006

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☑ | DIESEL - MOD 8015 ☑ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-153 3'	31	5/2/23	0906	S	1				X		X		X	X	X														X			
C-154 3'	32	"	0908	S	1				X		X		X	X	X														X			
C-155 3'	33	"	0910	S	1				X		X		X	X	X														X			
C-156 3'	34	"	1300	S	1				X		X		X	X	X														X			
C-157 3'	35	"	1302	S	1				X		X		X	X	X														X			
C-163 3'	36	"	1304	S	1				X		X		X	X	X														X			
C-164 3'	37	"	1306	S	1				X		X		X	X	X														X			
C-165 3'	38	"	1308	S	1				X		X		X	X	X														X			
C-166 3'	39	"	1310	S	1				X		X		X	X	X														X			
C-167 3'	40	"	1312	S	1				X		X		X	X	X														X			
C-168 3'	41	"	1314	S	1				X		X		X	X	X														X			
C-169 3'	42	"	1316	S	1				X		X		X	X	X														X			
C-246 3'	43	5/3/23	0802	S	1				X		X		X	X	X														X			
C-247 3'	44	"	0804	S	1				X		X		X	X	X														X			
C-158 3'	45	"	0806	S	1				X		X		X	X	X														X			
TOTAL																																

RELINQUISHED BY:(Signature) DATE/TIME 5/5/23 0848 RECEIVED BY:(Signature)

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -1.5 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Nº 1931

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: _____ PAGE 4 OF 4

PO#: _____ LAB WORK ORDER#: 3E05006

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-144 4.1	46	5/3/23	0900	S	1				X				X	X	X														X			
C-145 4.1	47		0902	S	1				X				X	X	X														X			
C-170 3'	48		1100	S	1				X				X	X	X														X			
C-171 3'	49		1102	S	1				X				X	X	X														X			
C-172 3'	50		1104	S	1				X				X	X	X														X			
C-173 3'	51		1106	S	1				X				X	X	X														X			
C-174 3'	52		1108	S	1				X				X	X	X														X			
C-175 3'	53		1140	S	1				X				X	X	X														X			
C-176 3'	54		1142	S	1				X				X	X	X														X			
C-178 3'	55		1146	S	1				X				X	X	X														X			
C-179 3'	56		1148	S	1				X				X	X	X														X			
C-180 3'	57		1220	S	1				X				X	X	X														X			
C-181 3'	58		1222	S	1				X				X	X	X														X			
C-182 3'	59		1224	S	1				X				X	X	X														X			
C-183 3'	60		1226	S	1				X				X	X	X														X			
TOTAL	15																														

RELINQUISHED BY:(Signature) DATE/TIME 5/5/23 0848 RECEIVED BY: (Signature) Pliny Elder

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 12.5 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM
Released to Imaging: 9/30/2024 4:19:02 PM

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Piney Elder

Project Number: 22-0107-02

Location: New Mexico

Lab Order Number: 3E11015

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/23/23

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-177 @ 4.1'	3E11015-01	Soil	05/08/23 11:45	05-11-2023 08:27
C-184 @ 3'	3E11015-02	Soil	05/08/23 13:00	05-11-2023 08:27
C-185 @ 3'	3E11015-03	Soil	05/08/23 13:02	05-11-2023 08:27
C-186 @ 3'	3E11015-04	Soil	05/08/23 13:04	05-11-2023 08:27
C-188 @ 3'	3E11015-05	Soil	05/08/23 13:06	05-11-2023 08:27
C-189 @ 3'	3E11015-06	Soil	05/08/23 13:08	05-11-2023 08:27
C-190 @ 3'	3E11015-07	Soil	05/08/23 13:10	05-11-2023 08:27
C-191 @ 3'	3E11015-08	Soil	05/08/23 14:20	05-11-2023 08:27
C-192 @ 3'	3E11015-09	Soil	05/08/23 14:22	05-11-2023 08:27
C-193 @ 3'	3E11015-10	Soil	05/08/23 14:24	05-11-2023 08:27
C-194 @ 3'	3E11015-11	Soil	05/08/23 14:26	05-11-2023 08:27
C-195 @ 3'	3E11015-12	Soil	05/08/23 14:28	05-11-2023 08:27
C-197 @ 3'	3E11015-13	Soil	05/08/23 14:30	05-11-2023 08:27
C-206A @ 0'-3'	3E11015-14	Soil	05/09/23 08:30	05-11-2023 08:27
C-207A @ 0'-3'	3E11015-15	Soil	05/09/23 08:38	05-11-2023 08:27
C-207B @ 0'-3'	3E11015-16	Soil	05/09/23 08:42	05-11-2023 08:27
C-208A @ 0'-3'	3E11015-17	Soil	05/09/23 08:46	05-11-2023 08:27
C-208B @ 0'-3'	3E11015-18	Soil	05/09/23 08:50	05-11-2023 08:27
C-209A @ 0'-3'	3E11015-19	Soil	05/09/23 08:54	05-11-2023 08:27
C-209B @ 0'-3'	3E11015-20	Soil	05/09/23 08:58	05-11-2023 08:27
C-210A @ 0'-3'	3E11015-21	Soil	05/09/23 09:02	05-11-2023 08:27
C-210B @ 0'-3'	3E11015-22	Soil	05/09/23 09:06	05-11-2023 08:27
C-211 @ 0'-3'	3E11015-23	Soil	05/09/23 09:10	05-11-2023 08:27
C-249 @ 2'	3E11015-24	Soil	05/09/23 13:58	05-11-2023 08:27
C-250 @ 2'	3E11015-25	Soil	05/09/23 14:00	05-11-2023 08:27
C-251 @ 2'	3E11015-26	Soil	05/09/23 14:02	05-11-2023 08:27
C-252 @ 2'	3E11015-27	Soil	05/09/23 14:04	05-11-2023 08:27
C-253 @ 2'	3E11015-28	Soil	05/09/23 14:06	05-11-2023 08:27
C-254 @ 2'	3E11015-29	Soil	05/09/23 14:08	05-11-2023 08:27
C-255 @ 2'	3E11015-30	Soil	05/09/23 14:10	05-11-2023 08:27
C-256 @ 2'	3E11015-31	Soil	05/09/23 14:12	05-11-2023 08:27
C-257 @ 2'	3E11015-32	Soil	05/09/23 14:14	05-11-2023 08:27
C-258 @ 2'	3E11015-33	Soil	05/09/23 14:16	05-11-2023 08:27
C-259 @ 2'	3E11015-34	Soil	05/09/23 14:18	05-11-2023 08:27

Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-260 @ 2'	3E11015-35	Soil	05/09/23 14:20	05-11-2023 08:27
C-261 @ 2'	3E11015-36	Soil	05/09/23 14:22	05-11-2023 08:27
C-262 @ 0'-2'	3E11015-37	Soil	05/09/23 14:24	05-11-2023 08:27
C-263 @ 0'-2'	3E11015-38	Soil	05/09/23 14:26	05-11-2023 08:27
C-264 @ 2'	3E11015-39	Soil	05/09/23 14:28	05-11-2023 08:27
C-265 @ 2'	3E11015-40	Soil	05/09/23 14:30	05-11-2023 08:27
C-266 @ 2'	3E11015-41	Soil	05/09/23 14:32	05-11-2023 08:27
C-267 @ 2'	3E11015-42	Soil	05/09/23 14:34	05-11-2023 08:27
C-268 @ 2'	3E11015-43	Soil	05/09/23 14:36	05-11-2023 08:27
C-269 @ 0'-2'	3E11015-44	Soil	05/09/23 14:38	05-11-2023 08:27
C-270 @ 0'-2'	3E11015-45	Soil	05/09/23 14:40	05-11-2023 08:27
C-206B @ 0'-3'	3E11015-46	Soil	05/10/23 07:45	05-11-2023 08:27

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-177 @ 4.1'

3E11015-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 10:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 10:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 10:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 10:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 10:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 10:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 10:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 02:51	TPH 8015M	
>C12-C28	**77.9**	25.8	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 02:51	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 02:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P3E1111*	*05/11/23 13:15*	*05/19/23 02:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3E1111*	*05/11/23 13:15*	*05/19/23 02:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**77.9**	25.8	mg/kg dry	1	[CALC]	05/11/23 13:15	05/19/23 02:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**120**	1.03	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 07:38	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-184 @ 3'

3E11015-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00130**	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:04	EPA 8021B	
Toluene	**0.00101**	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:04	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:04	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:04	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 03:14	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 03:14	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1111	05/11/23 13:15	05/19/23 03:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.4 %*	*70-130*		*P3E1111*	*05/11/23 13:15*	*05/19/23 03:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.5 %*	*70-130*		*P3E1111*	*05/11/23 13:15*	*05/19/23 03:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 13:15	05/19/23 03:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**257**	1.01	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 07:53	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-185 @ 3'

3E11015-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:25	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:25	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:25	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:25	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.3 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 17:50	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 17:50	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 17:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 17:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 17:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 17:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**35.3**	1.03	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 08:36	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-186 @ 3'

3E11015-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:46	EPA 8021B	
Toluene	**0.00109**	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:46	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:46	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:46	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1108	05/11/23 14:25	05/12/23 11:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E1108*	*05/11/23 14:25*	*05/12/23 11:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:13	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:13	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.9 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 18:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.3**	1.01	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 09:18	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-188 @ 3'

3E11015-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 16:42	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 16:42	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 16:42	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 16:42	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 16:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 16:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 16:42*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:36	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:36	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.1 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.1 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 18:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.0**	1.02	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 09:33	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-189 @ 3'

3E11015-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:02	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:02	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:02	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:02	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:59	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:59	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 18:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.7 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 18:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 18:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**51.3**	1.04	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 09:47	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-190 @ 3'

3E11015-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	**0.00737**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:23	EPA 8021B	
Toluene	**0.00461**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:23	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:23	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 19:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*65.4 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 19:23*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 19:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**184**	1.00	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 10:01	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-191 @ 3'

3E11015-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 17:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 17:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:46	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:46	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 19:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 19:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.8 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 19:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 19:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**29.2**	1.03	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 10:16	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-192 @ 3'

3E11015-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:04	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:04	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:04	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:04	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:09	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:09	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 20:09	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**93.8**	1.02	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 10:30	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-193 @ 3'

3E11015-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:24	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:24	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:24	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:24	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:24*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:32	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:32	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.9 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 20:32	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**63.0**	1.02	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 10:44	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-194 @ 3'

3E11015-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:45	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:45	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:45	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:45	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 18:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 18:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:55	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:55	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 20:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 20:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 20:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**148**	1.08	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 10:59	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-195 @ 3'

3E11015-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:05	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:05	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:05	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:05	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 19:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 19:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 21:18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 21:18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 21:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.5 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 21:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 21:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 21:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.9**	1.02	mg/kg dry	1	P3E1214	05/14/23 13:45	05/15/23 11:13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-197 @ 3'

3E11015-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:26	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:26	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:26	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:26	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/12/23 19:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 19:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/12/23 19:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:27	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:27	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.1 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 22:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 22:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 22:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**524**	1.03	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 16:30	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-206A @ 0'-3'

3E11015-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00107**	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 09:20	EPA 8021B	
Toluene	**0.00134**	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 09:20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 09:20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 09:20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 09:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 09:20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 09:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:50	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:50	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 22:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.8 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 22:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.5 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 22:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 22:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**353**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 17:13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-207A @ 0'-3'

3E11015-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:22	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:22	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:22	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:22	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 10:22*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 10:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:13	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:13	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 23:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 23:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 23:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**123**	1.03	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 17:28	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-207B @ 0'-3'

3E11015-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 10:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 10:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 10:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:36	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:36	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/20/23 23:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.5 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 23:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/20/23 23:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/20/23 23:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**160**	1.03	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 17:42	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-208A @ 0'-3'

3E11015-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:04	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:04	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:04	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:04	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:00	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:00	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.9 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 00:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**182**	1.02	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 17:57	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-208B @ 0'-3'

3E11015-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	**0.00445**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:25	EPA 8021B	
Toluene	**0.00258**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:25	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:25	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:25	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:23	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:23	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.1 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*79.8 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 00:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**176**	1.00	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 18:11	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-209A @ 0'-3'

3E11015-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:46	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:46	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:46	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:46	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 11:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 11:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:46	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:46	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 00:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 00:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 00:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**118**	1.05	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 18:25	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-209B @ 0'-3'

3E11015-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:06	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:06	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:06	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:06	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:10	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:10	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 01:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**63.2**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 18:40	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-210A @ 0'-3'

3E11015-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:27	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:27	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:27	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:27	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.3 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:33	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:33	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.2 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 01:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**126**	1.03	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 18:54	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-210B @ 0'-3'

3E11015-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:48	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:48	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:48	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:48	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 12:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 12:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:56	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:56	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1212	05/11/23 14:45	05/21/23 01:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.6 %*	*70-130*		*P3E1212*	*05/11/23 14:45*	*05/21/23 01:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 14:45	05/21/23 01:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**162**	1.02	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 19:08	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-211 @ 0'-3'

3E11015-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:09	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:09	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:09	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:09	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 13:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 13:09*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:24	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:24	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 05:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.6 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 05:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 05:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**403**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 19:51	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-249 @ 2'

3E11015-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00288**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:30	EPA 8021B	
Toluene	**0.00127**	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1207	05/12/23 13:25	05/15/23 13:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 13:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3E1207*	*05/12/23 13:25*	*05/15/23 13:30*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:47	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:47	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 05:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 05:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 05:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 05:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**150**	1.00	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 20:34	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-250 @ 2'

3E11015-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00216**	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:37	EPA 8021B	
Toluene	**0.00119**	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 16:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 16:37*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:10	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:10	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*78.0 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 06:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**49.1**	1.00	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 20:48	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-251 @ 2'

3E11015-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:58	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:58	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:58	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:58	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 16:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 16:58*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 16:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:34	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:34	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.2 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 06:34	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**309**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 21:02	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-252 @ 2'

3E11015-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 17:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 17:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:57	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:57	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 06:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.0 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 06:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 06:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**114**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 21:17	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-253 @ 2'

3E11015-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:39	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:39	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:39	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:39	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 17:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 17:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 17:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 07:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.9 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 07:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 07:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**226**	1.03	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 21:31	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-254 @ 2'

3E11015-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:00	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:00	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:00	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:00	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:43	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:43	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 07:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.8 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 07:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.5 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 07:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 07:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**454**	1.02	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 21:45	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-255 @ 2'

3E11015-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00174**	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:21	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:07	TPH 8015M	
>C12-C28	**47.0**	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:07	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.6 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.8 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**47.0**	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 08:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**237**	1.01	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 22:00	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-256 @ 2'

3E11015-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:41	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:41	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:41	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:41	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 18:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 18:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:30	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:30	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*151 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:30*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 08:30	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**469**	1.06	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 22:14	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-257 @ 2'

3E11015-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:02	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:02	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:02	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:02	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:02*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:53	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:53	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 08:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.0 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.5 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 08:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 08:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**429**	1.04	mg/kg dry	1	P3E1215	05/14/23 13:46	05/15/23 22:28	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-258 @ 2'

3E11015-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:22	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:22	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:22	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.7 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:03	TPH 8015M	
>C12-C28	**103**	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:03	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.8 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.0 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**103**	25.5	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 10:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**422**	1.02	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 06:06	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-259 @ 2'

3E11015-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:43	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:43	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:43	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:43	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3E1208	05/12/23 13:28	05/15/23 19:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/15/23 19:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:26	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:26	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.3 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 10:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**342**	1.04	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 06:49	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-260 @ 2'

3E11015-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:15	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:15	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:15	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:15	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:15*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:50	TPH 8015M	
>C12-C28	**55.6**	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:50	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 10:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.0 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.7 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 10:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**55.6**	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 10:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**503**	1.01	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 07:04	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-261 @ 2'

3E11015-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:36	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:36	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:36	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:36	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:14	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:14	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 11:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 11:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 11:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**314**	1.02	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 07:18	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-262 @ 0'-2'

3E11015-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00370**	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:57	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 08:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 08:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:38	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:38	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 11:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 11:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 11:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 11:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**164**	1.00	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 07:32	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-263 @ 0'-2'

3E11015-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:18	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:18	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:18	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:18	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:18*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:02	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:02	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.5 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.2 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 12:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1100**	1.01	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 07:47	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-264 @ 2'

3E11015-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:39	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:39	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:39	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:39	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:26	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:26	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 12:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**613**	1.10	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 08:01	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-265 @ 2'

3E11015-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:59	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:59	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:59	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:59	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 09:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 09:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:50	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:50	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 12:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.5 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 12:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 12:50	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1110**	1.05	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 08:15	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-266 @ 2'

3E11015-41 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00302**	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:20	EPA 8021B	
Toluene	**0.00184**	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 10:20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 10:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:14	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:14	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 13:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.2 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 13:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 13:14	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**195**	1.01	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 08:29	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-267 @ 2'

3E11015-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00205**	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:41	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:41	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:41	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:41	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 10:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 10:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 10:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:38	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:38	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E1213	05/11/23 15:30	05/21/23 13:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.7 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 13:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.7 %*	*70-130*		*P3E1213*	*05/11/23 15:30*	*05/21/23 13:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/23 15:30	05/21/23 13:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2360**	1.01	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 08:44	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-268 @ 2'

3E11015-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:02	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 11:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 11:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:18	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:18	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.4 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 01:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.9 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 01:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	05/12/23 13:30	05/13/23 01:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**491**	1.00	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 09:26	EPA 300.0	
% Moisture	ND	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-269 @ 0'-2'

3E11015-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:23	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:23	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:23	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:23	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E1208	05/12/23 13:28	05/16/23 11:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 11:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E1208*	*05/12/23 13:28*	*05/16/23 11:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:41	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:41	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 01:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.3 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 01:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 01:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/12/23 13:30	05/13/23 01:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**787**	1.05	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 10:09	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-270 @ 0'-2'

3E11015-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:27	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:27	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:27	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:27	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E1209*	*05/12/23 13:30*	*05/16/23 14:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P3E1209*	*05/12/23 13:30*	*05/16/23 14:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:05	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:05	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.3 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 02:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.2 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 02:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/12/23 13:30	05/13/23 02:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**365**	1.08	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 10:24	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

C-206B @ 0'-3'

3E11015-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:47	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:47	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:47	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:47	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E1209	05/12/23 13:30	05/16/23 14:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3E1209*	*05/12/23 13:30*	*05/16/23 14:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3E1209*	*05/12/23 13:30*	*05/16/23 14:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:28	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:28	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 13:30	05/13/23 02:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.2 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 02:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.3 %*	*70-130*		*P3E1211*	*05/12/23 13:30*	*05/13/23 02:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/12/23 13:30	05/13/23 02:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**117**	1.09	mg/kg dry	1	P3E1216	05/14/23 13:48	05/16/23 10:38	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1108 - * DEFAULT PREP *** **										
Blank (P3E1108-BLK1)				Prepared & Analyzed: 05/11/23						
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	*0.112*		"	*0.120*		*93.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.7*	*80-120*			
LCS (P3E1108-BS1)				Prepared & Analyzed: 05/11/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.2	80-120			
Xylene (o)	0.0879	0.00100	"	0.100		87.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*80-120*			
LCS Dup (P3E1108-BSD1)				Prepared & Analyzed: 05/11/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120	11.2	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	11.7	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	11.3	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	80-120	10.7	20	
Xylene (o)	0.0984	0.00100	"	0.100		98.4	80-120	11.3	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.5*	*80-120*			
Calibration Blank (P3E1108-CCB1)				Prepared & Analyzed: 05/11/23						
Benzene	0.00		ug/kg							
Toluene	0.170		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.6*	*80-120*			

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1108 - * DEFAULT PREP *** **										
Calibration Blank (P3E1108-CCB2)				Prepared & Analyzed: 05/11/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.112*		*"*	*0.120*		*93.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*80-120*			
Calibration Check (P3E1108-CCV1)				Prepared & Analyzed: 05/11/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0940	0.00100	"	0.100		94.0	80-120			
Ethylbenzene	0.0909	0.00100	"	0.100		90.9	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.7	80-120			
Xylene (o)	0.0903	0.00100	"	0.100		90.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*75-125*			
Calibration Check (P3E1108-CCV2)				Prepared & Analyzed: 05/11/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0998	0.00100	"	0.100		99.8	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*75-125*			
Calibration Check (P3E1108-CCV3)				Prepared: 05/11/23 Analyzed: 05/12/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1108 - * DEFAULT PREP *** **										
Matrix Spike (P3E1108-MS1)	**Source: 3E09010-01**			Prepared: 05/11/23 Analyzed: 05/12/23						
Benzene	0.133	0.00103	mg/kg dry	0.103	ND	129	80-120			QM-05
Toluene	0.0815	0.00103	"	0.103	ND	79.0	80-120			QM-05
Ethylbenzene	0.0139	0.00103	"	0.103	0.00116	12.3	80-120			QM-05
Xylene (p/m)	0.0259	0.00206	"	0.206	0.00425	10.5	80-120			QM-05
Xylene (o)	0.0122	0.00103	"	0.103	0.00287	9.10	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.124*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.124*		*86.9*	*80-120*			
Matrix Spike Dup (P3E1108-MSD1)	**Source: 3E09010-01**			Prepared: 05/11/23 Analyzed: 05/12/23						
Benzene	0.147	0.00103	mg/kg dry	0.103	ND	143	80-120	10.1	20	QM-05
Toluene	0.0853	0.00103	"	0.103	ND	82.8	80-120	4.64	20	
Ethylbenzene	0.0135	0.00103	"	0.103	0.00116	11.9	80-120	3.46	20	QM-05
Xylene (p/m)	0.0259	0.00206	"	0.206	0.00425	10.5	80-120	0.191	20	QM-05
Xylene (o)	0.0121	0.00103	"	0.103	0.00287	8.93	80-120	1.89	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0987*		"	*0.124*		*79.8*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.124*		*101*	*80-120*			
Batch P3E1207 - * DEFAULT PREP *** **										
Blank (P3E1207-BLK1)				Prepared & Analyzed: 05/12/23						
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	*0.112*		"	*0.120*		*93.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.3*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1207 - * DEFAULT PREP *** **										
LCS (P3E1207-BS1)				Prepared & Analyzed: 05/12/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			
LCS Dup (P3E1207-BSD1)				Prepared & Analyzed: 05/12/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120	1.34	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	2.37	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	2.36	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120	2.33	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	2.78	20	
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*95.3*	*80-120*			
Calibration Blank (P3E1207-CCB1)				Prepared & Analyzed: 05/12/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*80-120*			
Calibration Blank (P3E1207-CCB2)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.100		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1207 - * DEFAULT PREP *** **										
Calibration Blank (P3E1207-CCB3)				Prepared: 05/12/23 Analyzed: 05/15/23						
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*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
Calibration Check (P3E1207-CCV1)				Prepared & Analyzed: 05/12/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		99.8	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*75-125*			
Calibration Check (P3E1207-CCV2)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0843	0.00100	"	0.100		84.3	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		81.8	80-120			
Xylene (o)	0.0927	0.00100	"	0.100		92.7	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.111*		*"*	*0.120*		*92.4*	*75-125*			
Calibration Check (P3E1207-CCV3)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0848	0.00100	"	0.100		84.8	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0943	0.00100	"	0.100		94.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.2*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1207 - * DEFAULT PREP *** **										
Matrix Spike (P3E1207-MS1)	**Source: 3E11015-05**			Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.0812	0.00102	mg/kg dry	0.102	ND	79.6	80-120			QM-05
Toluene	0.0187	0.00102	"	0.102	ND	18.3	80-120			QM-05
Ethylbenzene	0.00310	0.00102	"	0.102	ND	3.04	80-120			QM-05
Xylene (p/m)	0.00249	0.00204	"	0.204	ND	1.22	80-120			QM-05
Xylene (o)	0.0650	0.00102	"	0.102	ND	63.7	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.122*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.122*		*97.7*	*80-120*			
Matrix Spike Dup (P3E1207-MSD1)	**Source: 3E11015-05**			Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.0942	0.00102	mg/kg dry	0.102	ND	92.4	80-120	14.9	20	
Toluene	0.0462	0.00102	"	0.102	ND	45.3	80-120	84.9	20	QM-05
Ethylbenzene	0.00656	0.00102	"	0.102	ND	6.43	80-120	71.6	20	QM-05
Xylene (p/m)	0.00530	0.00204	"	0.204	ND	2.60	80-120	72.1	20	QM-05
Xylene (o)	0.0773	0.00102	"	0.102	ND	75.7	80-120	17.2	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.122*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.122*		*112*	*80-120*			
Batch P3E1208 - * DEFAULT PREP *** **										
Blank (P3E1208-BLK1)				Prepared: 05/12/23 Analyzed: 05/15/23						
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	*0.114*		"	*0.120*		*94.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.8*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1208 - * DEFAULT PREP *** **										
LCS (P3E1208-BS1)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		90.9	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.8*	*80-120*			
LCS Dup (P3E1208-BSD1)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120	0.193	20	
Toluene	0.106	0.00100	"	0.100		106	80-120	0.770	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	1.31	20	
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120	1.10	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	1.02	20	
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*80-120*			
Calibration Blank (P3E1208-CCB1)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.5*	*80-120*			
Calibration Blank (P3E1208-CCB2)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*90.9*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1208 - * DEFAULT PREP *** **										
Calibration Check (P3E1208-CCV1)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0848	0.00100	"	0.100		84.8	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0943	0.00100	"	0.100		94.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.2*	*75-125*			
Calibration Check (P3E1208-CCV2)				Prepared: 05/12/23 Analyzed: 05/15/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0804	0.00100	"	0.100		80.4	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.0	80-120			
Xylene (o)	0.0847	0.00100	"	0.100		84.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.7*	*75-125*			
Calibration Check (P3E1208-CCV3)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.0803	0.00100	"	0.100		80.3	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	80-120			
Xylene (o)	0.0883	0.00100	"	0.100		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*90.1*	*75-125*			
Matrix Spike (P3E1208-MS1)		**Source: 3E11015-25**		Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.0870	0.00100	mg/kg dry	0.100	0.00216	84.8	80-120			
Toluene	0.0502	0.00100	"	0.100	0.00119	49.0	80-120			QM-05
Ethylbenzene	0.0616	0.00100	"	0.100	ND	61.6	80-120			QM-05
Xylene (p/m)	0.0100	0.00200	"	0.200	ND	5.02	80-120			QM-05
Xylene (o)	0.0687	0.00100	"	0.100	ND	68.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		"	*0.120*		*111*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1208 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3E1208-MSD1)	**Source: 3E11015-25**			Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.0833	0.00100	mg/kg dry	0.100	0.00216	81.2	80-120	4.43	20	
Toluene	0.0372	0.00100	"	0.100	0.00119	36.0	80-120	30.7	20	QM-05
Ethylbenzene	0.0574	0.00100	"	0.100	ND	57.4	80-120	7.01	20	QM-05
Xylene (p/m)	0.0461	0.00200	"	0.200	ND	23.0	80-120	128	20	QM-05
Xylene (o)	0.0651	0.00100	"	0.100	ND	65.1	80-120	5.38	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Batch P3E1209 - * DEFAULT PREP *** **										
Blank (P3E1209-BLK1)				Prepared: 05/12/23 Analyzed: 05/16/23						
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	*0.110*		*"*	*0.120*		*92.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.0*	*80-120*			
LCS (P3E1209-BS1)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.0	80-120			
Xylene (o)	0.0964	0.00100	"	0.100		96.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*104*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1209 - * DEFAULT PREP *** **										
LCS Dup (P3E1209-BSD1)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.0980	0.00100	mg/kg	0.100		98.0	80-120	14.1	20	
Toluene	0.0877	0.00100	"	0.100		87.7	80-120	13.6	20	
Ethylbenzene	0.0868	0.00100	"	0.100		86.8	80-120	11.4	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.3	80-120	7.92	20	
Xylene (o)	0.0844	0.00100	"	0.100		84.4	80-120	13.3	20	
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P3E1209-CCB1)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.4*	*80-120*			
Calibration Blank (P3E1209-CCB2)				Prepared: 05/12/23 Analyzed: 05/16/23						
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*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.2*	*80-120*			
Calibration Check (P3E1209-CCV1)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.0803	0.00100	"	0.100		80.3	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	80-120			
Xylene (o)	0.0883	0.00100	"	0.100		88.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*90.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.9*	*75-125*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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
Batch P3E1209 - * DEFAULT PREP *** **										
Calibration Check (P3E1209-CCV2)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.6	80-120			
Xylene (o)	0.0980	0.00100	"	0.100		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.1*	*75-125*			
Calibration Check (P3E1209-CCV3)				Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.7	80-120			
Xylene (o)	0.0991	0.00100	"	0.100		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*93.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Matrix Spike (P3E1209-MS1)		**Source: 3E11015-45**		Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.0836	0.00108	mg/kg dry	0.108	ND	77.8	80-120			QM-05
Toluene	0.0609	0.00108	"	0.108	ND	56.6	80-120			QM-05
Ethylbenzene	0.0606	0.00108	"	0.108	ND	56.4	80-120			QM-05
Xylene (p/m)	0.0931	0.00215	"	0.215	ND	43.3	80-120			QM-05
Xylene (o)	0.0602	0.00108	"	0.108	ND	55.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.129*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.132*		"	*0.129*		*102*	*80-120*			
Matrix Spike Dup (P3E1209-MSD1)		**Source: 3E11015-45**		Prepared: 05/12/23 Analyzed: 05/16/23						
Benzene	0.0856	0.00108	mg/kg dry	0.108	ND	79.6	80-120	2.38	20	QM-05
Toluene	0.0255	0.00108	"	0.108	ND	23.7	80-120	81.9	20	QM-05
Ethylbenzene	0.0621	0.00108	"	0.108	ND	57.8	80-120	2.45	20	QM-05
Xylene (p/m)	0.0499	0.00215	"	0.215	ND	23.2	80-120	60.4	20	QM-05
Xylene (o)	0.0603	0.00108	"	0.108	ND	56.0	80-120	0.196	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.129*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.129*		*99.2*	*80-120*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1111 - TX 1005										
Blank (P3E1111-BLK1)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.0*		*"*	*100*		*86.0*	*70-130*			
Surrogate: o-Terphenyl	*45.4*		*"*	*50.0*		*90.8*	*70-130*			
LCS (P3E1111-BS1)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	959	25.0	mg/kg	1000		95.9	75-125			
>C12-C28	852	25.0	"	1000		85.2	75-125			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*49.3*		*"*	*50.0*		*98.6*	*70-130*			
LCS Dup (P3E1111-BSD1)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	1030	25.0	mg/kg	1000		103	75-125	7.14	20	
>C12-C28	935	25.0	"	1000		93.5	75-125	9.27	20	
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*53.2*		*"*	*50.0*		*106*	*70-130*			
Calibration Blank (P3E1111-CCB1)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	9.94		mg/kg							
>C12-C28	11.8		"							
Surrogate: 1-Chlorooctane	*80.2*		*"*	*100*		*80.2*	*70-130*			
Surrogate: o-Terphenyl	*44.1*		*"*	*50.0*		*88.3*	*70-130*			
Calibration Blank (P3E1111-CCB2)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	11.0		mg/kg							
>C12-C28	23.8		"							
Surrogate: 1-Chlorooctane	*87.4*		*"*	*100*		*87.4*	*70-130*			
Surrogate: o-Terphenyl	*49.0*		*"*	*50.0*		*97.9*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1111 - TX 1005										
Calibration Check (P3E1111-CCV1)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	488	25.0	mg/kg	500		97.6	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	*95.1*		*"*	*100*		*95.1*	*70-130*			
Surrogate: o-Terphenyl	*46.3*		*"*	*50.0*		*92.7*	*70-130*			
Calibration Check (P3E1111-CCV2)				Prepared: 05/11/23 Analyzed: 05/18/23						
C6-C12	510	25.0	mg/kg	500		102	85-115			
>C12-C28	503	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*99.1*		*"*	*100*		*99.1*	*70-130*			
Surrogate: o-Terphenyl	*48.5*		*"*	*50.0*		*97.1*	*70-130*			
Calibration Check (P3E1111-CCV3)				Prepared: 05/11/23 Analyzed: 05/19/23						
C6-C12	511	25.0	mg/kg	500		102	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*99.2*		*"*	*100*		*99.2*	*70-130*			
Surrogate: o-Terphenyl	*51.7*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike (P3E1111-MS1)		**Source: 3E11015-02**		Prepared: 05/11/23 Analyzed: 05/19/23						
C6-C12	922	25.3	mg/kg dry	1010	13.3	90.0	75-125			
>C12-C28	806	25.3	"	1010	15.4	78.3	75-125			
Surrogate: 1-Chlorooctane	*105*		*"*	*101*		*104*	*70-130*			
Surrogate: o-Terphenyl	*45.1*		*"*	*50.5*		*89.3*	*70-130*			
Matrix Spike Dup (P3E1111-MSD1)		**Source: 3E11015-02**		Prepared: 05/11/23 Analyzed: 05/19/23						
C6-C12	943	25.3	mg/kg dry	1010	13.3	92.0	75-125	2.19	20	
>C12-C28	811	25.3	"	1010	15.4	78.7	75-125	0.558	20	
Surrogate: 1-Chlorooctane	*106*		*"*	*101*		*105*	*70-130*			
Surrogate: o-Terphenyl	*46.4*		*"*	*50.5*		*91.8*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1211 - TX 1005										
Blank (P3E1211-BLK1)				Prepared & Analyzed: 05/12/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*94.7*		*"*	*100*		*94.7*	*70-130*			
Surrogate: o-Terphenyl	*51.7*		*"*	*50.0*		*103*	*70-130*			
LCS (P3E1211-BS1)				Prepared & Analyzed: 05/12/23						
C6-C12	1040	25.0	mg/kg	1000		104	75-125			
>C12-C28	892	25.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	*123*		*"*	*100*		*123*	*70-130*			
Surrogate: o-Terphenyl	*52.3*		*"*	*50.0*		*105*	*70-130*			
LCS Dup (P3E1211-BSD1)				Prepared: 05/12/23 Analyzed: 05/15/23						
C6-C12	1060	25.0	mg/kg	1000		106	75-125	2.18	20	
>C12-C28	966	25.0	"	1000		96.6	75-125	8.01	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*63.9*		*"*	*50.0*		*128*	*70-130*			
Calibration Check (P3E1211-CCV1)				Prepared & Analyzed: 05/12/23						
C6-C12	548	25.0	mg/kg	500		110	85-115			
>C12-C28	544	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*54.6*		*"*	*50.0*		*109*	*70-130*			
Calibration Check (P3E1211-CCV2)				Prepared: 05/12/23 Analyzed: 05/13/23						
C6-C12	547	25.0	mg/kg	500		109	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*56.2*		*"*	*50.0*		*112*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1211 - TX 1005										
Matrix Spike (P3E1211-MS1)	**Source: 3E11015-46**			Prepared: 05/12/23 Analyzed: 05/13/23						
C6-C12	1090	27.2	mg/kg dry	1090	ND	100	75-125			
>C12-C28	1020	27.2	"	1090	12.3	93.1	75-125			
Surrogate: 1-Chlorooctane	*127*		*"*	*109*		*117*	*70-130*			
Surrogate: o-Terphenyl	*8.76*		*"*	*54.3*		*16.1*	*70-130*			*S-GC*
Matrix Spike Dup (P3E1211-MSD1)	**Source: 3E11015-46**			Prepared: 05/12/23 Analyzed: 05/13/23						
C6-C12	1110	27.2	mg/kg dry	1090	ND	102	75-125	1.70	20	
>C12-C28	970	27.2	"	1090	12.3	88.1	75-125	5.54	20	
Surrogate: 1-Chlorooctane	*125*		*"*	*109*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.3*		*"*	*54.3*		*96.2*	*70-130*			
Batch P3E1212 - TX 1005										
Blank (P3E1212-BLK1)				Prepared: 05/11/23 Analyzed: 05/20/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.4*		*"*	*100*		*92.4*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
LCS (P3E1212-BS1)				Prepared: 05/11/23 Analyzed: 05/20/23						
C6-C12	994	25.0	mg/kg	1000		99.4	75-125			
>C12-C28	902	25.0	"	1000		90.2	75-125			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*60.7*		*"*	*50.0*		*121*	*70-130*			
LCS Dup (P3E1212-BSD1)				Prepared: 05/11/23 Analyzed: 05/20/23						
C6-C12	1080	25.0	mg/kg	1000		108	75-125	8.03	20	
>C12-C28	994	25.0	"	1000		99.4	75-125	9.64	20	
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*58.5*		*"*	*50.0*		*117*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1212 - TX 1005										
Calibration Check (P3E1212-CCV1)				Prepared: 05/11/23 Analyzed: 05/19/23						
C6-C12	538	25.0	mg/kg	500		108	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*60.6*		*"*	*50.0*		*121*	*70-130*			
Calibration Check (P3E1212-CCV2)				Prepared: 05/11/23 Analyzed: 05/20/23						
C6-C12	536	25.0	mg/kg	500		107	85-115			
>C12-C28	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3E1212-MS1)	**Source: 3E11015-22**			Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	983	25.5	mg/kg dry	1020	9.92	95.4	75-125			
>C12-C28	900	25.5	"	1020	ND	88.2	75-125			
Surrogate: 1-Chlorooctane	*131*		*"*	*102*		*128*	*70-130*			
Surrogate: o-Terphenyl	*64.9*		*"*	*51.0*		*127*	*70-130*			
Matrix Spike Dup (P3E1212-MSD1)	**Source: 3E11015-22**			Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	916	25.5	mg/kg dry	1020	9.92	88.8	75-125	7.13	20	
>C12-C28	813	25.5	"	1020	ND	79.7	75-125	10.1	20	
Surrogate: 1-Chlorooctane	*119*		*"*	*102*		*117*	*70-130*			
Surrogate: o-Terphenyl	*58.2*		*"*	*51.0*		*114*	*70-130*			
Batch P3E1213 - TX 1005										
Blank (P3E1213-BLK1)				Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*98.6*		*"*	*100*		*98.6*	*70-130*			
Surrogate: o-Terphenyl	*55.6*		*"*	*50.0*		*111*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1213 - TX 1005										
LCS (P3E1213-BS1)				Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	1080	25.0	mg/kg	1000		108	75-125			
>C12-C28	972	25.0	"	1000		97.2	75-125			
Surrogate: 1-Chlorooctane	*105*		"	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*58.4*		"	*50.0*		*117*	*70-130*			
LCS Dup (P3E1213-BSD1)				Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	1100	25.0	mg/kg	1000		110	75-125	1.71	20	
>C12-C28	1000	25.0	"	1000		100	75-125	2.84	20	
Surrogate: 1-Chlorooctane	*126*		"	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*64.7*		"	*50.0*		*129*	*70-130*			
Calibration Check (P3E1213-CCV1)				Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	534	25.0	mg/kg	500		107	85-115			
>C12-C28	544	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*110*		"	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*55.9*		"	*50.0*		*112*	*70-130*			
Calibration Check (P3E1213-CCV2)				Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	532	25.0	mg/kg	500		106	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*113*		"	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		"	*50.0*		*116*	*70-130*			
Matrix Spike (P3E1213-MS1)		**Source: 3E11015-42**		Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	989	25.3	mg/kg dry	1010	10.7	96.9	75-125			
>C12-C28	916	25.3	"	1010	16.5	89.1	75-125			
Surrogate: 1-Chlorooctane	*127*		"	*101*		*125*	*70-130*			
Surrogate: o-Terphenyl	*56.5*		"	*50.5*		*112*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1213 - TX 1005										
Matrix Spike Dup (P3E1213-MSD1)	**Source: 3E11015-42**			Prepared: 05/11/23 Analyzed: 05/21/23						
C6-C12	982	25.3	mg/kg dry	1010	10.7	96.1	75-125	0.781	20	
>C12-C28	905	25.3	"	1010	16.5	88.0	75-125	1.26	20	
Surrogate: 1-Chlorooctane	*125*		*"*	*101*		*124*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		*"*	*50.5*		*115*	*70-130*			

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1214 - * DEFAULT PREP *** **										
Blank (P3E1214-BLK1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E1214-BS1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	16.3		mg/kg	16.0		102	90-110			
LCS Dup (P3E1214-BSD1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	16.8		mg/kg	16.0		105	90-110	2.79	10	
Calibration Check (P3E1214-CCV1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	17.4		mg/kg	18.0		96.7	90-110			
Calibration Check (P3E1214-CCV2)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	17.2		mg/kg	18.0		95.7	90-110			
Matrix Spike (P3E1214-MS1)		**Source: 3E11013-11**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	130		mg/kg	100	31.0	99.3	80-120			
Matrix Spike (P3E1214-MS2)		**Source: 3E11015-03**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	44.7		mg/kg	50.0	3.42	82.5	80-120			
Matrix Spike Dup (P3E1214-MSD1)		**Source: 3E11013-11**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	131		mg/kg	100	31.0	99.9	80-120	0.445	20	
Matrix Spike Dup (P3E1214-MSD2)		**Source: 3E11015-03**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	40.0		mg/kg	50.0	3.42	73.1	80-120	11.1	20	QM-05
Batch P3E1215 - * DEFAULT PREP *** **										
Blank (P3E1215-BLK1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	ND	1.00	mg/kg							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1215 - * DEFAULT PREP *** **										
LCS (P3E1215-BS1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	16.3		mg/kg	16.0		102	90-110			
LCS Dup (P3E1215-BSD1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	16.9		mg/kg	16.0		105	90-110	3.55	10	
Calibration Check (P3E1215-CCV1)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	17.5		mg/kg	18.0		97.5	90-110			
Calibration Check (P3E1215-CCV2)				Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	19.2		mg/kg	18.0		107	90-110			
Matrix Spike (P3E1215-MS1)		**Source: 3E11015-13**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	98.4		mg/kg	50.0	50.8	95.2	80-120			
Matrix Spike (P3E1215-MS2)		**Source: 3E11015-23**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	83.0		mg/kg	50.0	39.9	86.2	80-120			
Matrix Spike Dup (P3E1215-MSD1)		**Source: 3E11015-13**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	92.9		mg/kg	50.0	50.8	84.1	80-120	5.78	20	
Matrix Spike Dup (P3E1215-MSD2)		**Source: 3E11015-23**		Prepared: 05/14/23 Analyzed: 05/15/23						
Chloride	82.4		mg/kg	50.0	39.9	85.0	80-120	0.709	20	
Batch P3E1216 - * DEFAULT PREP *** **										
Blank (P3E1216-BLK1)				Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	ND	1.00	mg/kg							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1216 - * DEFAULT PREP *** **										
LCS (P3E1216-BS1)				Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	17.6		mg/kg	18.4		95.8	90-110			
LCS Dup (P3E1216-BSD1)				Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	17.5		mg/kg	18.4		94.9	90-110	0.975	10	
Calibration Check (P3E1216-CCV1)				Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	18.9		mg/kg	18.0		105	90-110			
Calibration Check (P3E1216-CCV2)				Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	18.6		mg/kg	18.0		104	90-110			
Matrix Spike (P3E1216-MS1)		**Source: 3E11015-33**		Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	94.4		mg/kg	50.0	41.3	106	80-120			
Matrix Spike (P3E1216-MS2)		**Source: 3E11015-43**		Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	105		mg/kg	50.0	49.1	111	80-120			
Matrix Spike Dup (P3E1216-MSD1)		**Source: 3E11015-33**		Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	96.8		mg/kg	50.0	41.3	111	80-120	2.50	20	
Matrix Spike Dup (P3E1216-MSD2)		**Source: 3E11015-43**		Prepared: 05/14/23 Analyzed: 05/16/23						
Chloride	98.5		mg/kg	50.0	49.1	98.8	80-120	5.99	20	
Batch P3E1502 - * DEFAULT PREP *** **										
Blank (P3E1502-BLK1)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1502 - * DEFAULT PREP *** **										
Blank (P3E1502-BLK2)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK3)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK4)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK5)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK6)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK7)				Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%							
Duplicate (P3E1502-DUP1)	**Source: 3E09016-19**			Prepared & Analyzed: 05/15/23						
% Moisture	11.0	0.1	%		14.0			24.0	20	R3
Duplicate (P3E1502-DUP2)	**Source: 3E09016-09**			Prepared & Analyzed: 05/15/23						
% Moisture	14.0	0.1	%		10.0			33.3	20	R3
Duplicate (P3E1502-DUP3)	**Source: 3E12002-06**			Prepared & Analyzed: 05/15/23						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P3E1502-DUP4)	**Source: 3E11019-02**			Prepared & Analyzed: 05/15/23						
% Moisture	5.0	0.1	%		6.0			18.2	20	

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
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 P3E1502 - * DEFAULT PREP *** **										
Duplicate (P3E1502-DUP5)		**Source: 3E11015-07**		Prepared & Analyzed: 05/15/23						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P3E1502-DUP6)		**Source: 3E11015-17**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		2.0			66.7	20	R3
Duplicate (P3E1502-DUP7)		**Source: 3E11015-32**		Prepared & Analyzed: 05/15/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3E1502-DUP8)		**Source: 3E11015-42**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUP9)		**Source: 3E12004-05**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		16.0			176	20	R3
Duplicate (P3E1502-DUPA)		**Source: 3E12006-15**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUPB)		**Source: 3E12006-30**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUPC)		**Source: 3E12006-40**		Prepared & Analyzed: 05/15/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUPD)		**Source: 3E12018-05**		Prepared & Analyzed: 05/15/23						
% Moisture	3.0	0.1	%		2.0			40.0	20	R3

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Larson & Associates, Inc.	Project: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: Brent Barron Date: 5/23/2023

Brent Barron, Laboratory Director/Technical Director

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: Piney Elder
P.O. Box 50685	Project Number: 22-0107-02
Midland TX, 79710	Project Manager: Mark Larson

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№ 1933

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 1 OF 4

PO#: LAB WORK ORDER#: 3E11015

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐ HERB ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	RCI ☐	TDS ☐	pH ☐	EXPLOSIVES ☐	CHLORIDE ☒	TCLP VOC ☐	Semi-VOC ☐	OTHER LIST ☐	D.W. 200.8 ☐	TOX ☐	TSS ☐	FLASHPOINT ☐	TCLP ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	PECHLORATE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-177 4.1	1	5/8/23	1145	S	1				X		X			X	X	X													X													
C-184 3	2	"	1300	S	1				X		X			X	X	X													X													
C-185 3	3	"	1302	S	1				X		X			X	X	X													X													
C-186 3'	4	"	1304	S	1				X		X			X	X	X													X													
C-188 3'	5	"	1306	S	1				X		X			X	X	X													X													
C-189 3'	6	"	1308	S	1				X		X			X	X	X													X													
C-190 3'	7	"	1310	S	1				X		X			X	X	X													X													
C-191 3'	8	"	1420	S	1				X		X			X	X	X													X													
C-192 3'	9	"	1422	S	1				X		X			X	X	X													X													
C-193 3'	10	"	1424	S	1				X		X			X	X	X													X													
C-194 3'	11	"	1426	S	1				X		X			X	X	X													X													
C-195 3'	12	"	1428	S	1				X		X			X	X	X													X													
C-197 3'	13	"	1430	S	1				X		X			X	X	X													X													
C-206A 0-3'	14	5/9/23	0830	S	1				X		X			X	X	X													X													
C-207A 0-3	15	"	0838	S	1				X		X			X	X	X													X													
TOTAL 15																																											

RELINQUISHED BY:(Signature) Daniel Stefanski DATE/TIME 5/11/23 827 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 5/11/23 827 RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -1.3 2 THERM#: CF0
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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Nº

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 2 OF 4

PO#: _____ LAB WORK ORDER#: 3E11015

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	RCI ☐ TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-207B 0-3'	16	5/9/23	0842	S	1				X		X			X	X	X																						X			
C-208A 0-3'	17		0846	S	1				X		X			X	X	X																						X			
C-208B 0-3'	18		0850	S	1				X		X			X	X	X																						X			
C-209A 0-3'	19		0854	S	1				X		X			X	X	X																						X			
C-209B 0-3'	20		0858	S	1				X		X			X	X	X																						X			
C-210A 0-3'	21		0902	S	1				X		X			X	X	X																						X			
C-210B 0-3'	22		0906	S	1				X		X			X	X	X																						X			
C-211 0-3'	23		0910	S	1				X		X			X	X	X																						X			
C-249 2	24		1358	S	1				X		X			X	X	X																						X			
C-250 2	25		1400	S	1				X		X			X	X	X																						X			
C-251 2	26		1402	S	1				X		X			X	X	X																						X			
C-252 2	27		1404	S	1				X		X			X	X	X																						X			
C-253 2	28		1406	S	1				X		X			X	X	X																						X			
C-254 2	29		1408	S	1				X		X			X	X	X																						X			
C-255 2	30	"	1410	S	1				X		X			X	X	X																						X			
TOTAL 15																																											

RELINQUISHED BY:(Signature) Samuel Young DATE/TIME 5/11/2023 827 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 5-11-23 827 RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -13.2 THERM#: CF-0
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

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№ 1934

CHAIN-OF-CUSTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 3 OF 4

PO#: LAB WORK ORDER#: 3E11015

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-256 2	31	5/9/23	1412	S	1				X		X			X	X	X														X			
C-257 2	32		1414	S	1				X		X			X	X	X														X			
C-258 2	33		1416	S	1				X		X			X	X	X														X			
C-259 2	34		1418	S	1				X		X			X	X	X														X			
C-260 2	35		1420	S	1				X		X			X	X	X														X			
C-261 2	36		1422	S	1				X		X			X	X	X														X			
C-262 0-2'	37		1424	S	1				X		X			X	X	X														X			
C-263 0-2'	38		1426	S	1				X		X			X	X	X														X			
C-264 2	39		1428	S	1				X		X			X	X	X														X			
C-265 2	40		1430	S	1				X		X			X	X	X														X			
C-266 2	41		1432	S	1				X		X			X	X	X														X			
C-267 2	42		1434	S	1				X		X			X	X	X														X			
C-268 2	43		1436	S	1				X		X			X	X	X														X			
C-269 0-2'	44		1438	S	1				X		X			X	X	X														X			
C-270 0-2'	45		1440	S	1				X		X			X	X	X														X			
TOTAL 15																																		

RELINQUISHED BY:(Signature) Daniel Gomez DATE/TIME 5/11/2023 827 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 5.11.23 827 RECEIVED BY: (Signature)

LABORATORY: PBEL

TURN AROUND TIME

NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 13.2 THERM#: CF0

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

☐ CARRIER BILL # _____

☒ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

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Nº

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 5/11/2023 PAGE 4 OF 4

PO#: LAB WORK ORDER#: 3E11005

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-206B 0-3'	46	5/10/23	0745	S	1				X		X		X	X	X													X		

TOTAL 1

RELINQUISHED BY:(Signature) DATE/TIME 5.11.23 827 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 5-11-23 827 RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 13.2 THERM#: CF0
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/28/2023 12:29:21 PM

JOB DESCRIPTION

Pliney Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-29934-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/30/2024 4:19:02 PM

my EOL

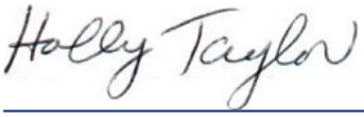
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
6/28/2023 12:29:21 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Laboratory Job ID: 880-29934-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Job ID: 880-29934-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-29934-1

Receipt
The samples were received on 6/23/2023 8:27 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 time was 2.9°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BF-1 (880-29934-1), BF-2 (880-29934-2), BF-3 (880-29934-3), BF-4 (880-29934-4), BF-5 (880-29934-5), BF-6 (880-29934-6), BF-7 (880-29934-7), BF-8 (880-29934-8), BF-9 (880-29934-9), BF-10 (880-29934-10), BF-11 (880-29934-11), BF-12 (880-29934-12), BF-13 (880-29934-13), BF-14 (880-29934-14), BF-15 (880-29934-15), BF-16 (880-29934-16), BF-17 (880-29934-17), BF-18 (880-29934-18), BF-19 (880-29934-19), BF-20 (880-29934-20), C-265, 4.1' (880-29934-21), C-267, 4.1' (880-29934-22), C-264, 4.1' (880-29934-23), C-269a, 0-4.1' (880-29934-24), C-269b, 0-4.1' (880-29934-25), C-269c, 0-4.1' (880-29934-26), C-248, 4.1' (880-29934-27), C-263, 0-2' (880-29934-28), C-159, 4.1' (880-29934-29), C-166, 4.1' (880-29934-30), C-167, 4.1' (880-29934-31), C-169, 4.1' (880-29934-32), C-172, 4.1' (880-29934-33), C-173, 4.1' (880-29934-34), C-175, 4.1' (880-29934-35) and C-179, 4.1' (880-29934-36).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56149/51). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-159, 4.1' (880-29934-29) and C-172, 4.1' (880-29934-33). 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 880-56149 recovered above the upper control limit for Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56149/51).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-56254/33), (LCS 880-56205/1-A) and (LCSD 880-56205/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BF-7 (880-29934-7), BF-9 (880-29934-9) and (880-29934-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BF-13 (880-29934-13) and BF-18 (880-29934-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-56205 and analytical batch 880-56254 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike (MS) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-56205 and analytical batch 880-56254 were outside control limits. Non-homogeneity is suspected.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-56224 and 880-56255 and analytical batch 880-56253 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56253 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56253/43).

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Job ID: 880-29934-1 (Continued)

Laboratory: Eurofins Midland (Continued)

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-267, 4.1' (880-29934-22), C-173, 4.1' (880-29934-34) and C-175, 4.1' (880-29934-35). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56210 and analytical batch 880-56147 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-269c, 0-4.1' (880-29934-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-166, 4.1' (880-29934-30) and C-167, 4.1' (880-29934-31). 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.

HPLC/IC

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-1

Date Collected: 06/19/23 11:00
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-1
Matrix: Solid

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		06/23/23 12:14	06/25/23 04:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:05	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:05	1
m,p-Xylenes	<0.00403	U *+ F1	0.00403		mg/Kg		06/23/23 12:14	06/25/23 04:05	1
o-Xylene	<0.00202	U *+ F1	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:05	1
Xylenes, Total	<0.00403	U *+ F1	0.00403		mg/Kg		06/23/23 12:14	06/25/23 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:05*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:05*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/25/23 23:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 13:53	06/25/23 23:34	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 13:53	06/25/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*06/23/23 13:53*	*06/25/23 23:34*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*06/23/23 13:53*	*06/25/23 23:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.0**		5.01		mg/Kg			06/27/23 12:54	1

Client Sample ID: BF-2

Date Collected: 06/19/23 11:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-2
Matrix: Solid

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		06/23/23 12:14	06/25/23 04:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:14	06/25/23 04:25	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 04:25	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 04:25	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 04:25	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:25*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-2

Date Collected: 06/19/23 11:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-2
Matrix: Solid

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 00:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 00:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*06/23/23 13:53*	*06/26/23 00:38*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*06/23/23 13:53*	*06/26/23 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.4**		5.02		mg/Kg			06/27/23 13:12	1

Client Sample ID: BF-3

Date Collected: 06/19/23 11:10
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-3
Matrix: Solid

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		06/23/23 12:14	06/25/23 04:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:46	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:46	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		06/23/23 12:14	06/25/23 04:46	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 04:46	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		06/23/23 12:14	06/25/23 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/23/23 12:14*	*06/25/23 04:46*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 00:59	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: BF-3 Lab Sample ID: 880-29934-3
Date Collected: 06/19/23 11:10 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 13:53	06/26/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*06/23/23 13:53*	*06/26/23 00:59*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*06/23/23 13:53*	*06/26/23 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.7**		4.99		mg/Kg			06/27/23 13:18	1

Client Sample ID: BF-4 Lab Sample ID: 880-29934-4
Date Collected: 06/19/23 11:15 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:14	06/25/23 05:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:07	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:07	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 05:07	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:07	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:07*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:07*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 01:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 01:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*06/23/23 13:53*	*06/26/23 01:20*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*06/23/23 13:53*	*06/26/23 01:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.2**		4.95		mg/Kg			06/27/23 13:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-5

Date Collected: 06/19/23 11:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-5
Matrix: Solid

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		06/23/23 12:14	06/25/23 05:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 05:27	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 05:27	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 05:27	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 05:27	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:27*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 01:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 01:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*06/23/23 13:53*	*06/26/23 01:41*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*06/23/23 13:53*	*06/26/23 01:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.3**		4.98		mg/Kg			06/27/23 13:29	1

Client Sample ID: BF-6

Date Collected: 06/19/23 11:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-6
Matrix: Solid

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		06/23/23 12:14	06/25/23 05:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:48	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:48	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 05:48	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 05:48	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:48*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/23 12:14*	*06/25/23 05:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-6

Date Collected: 06/19/23 11:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-6
Matrix: Solid

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 02:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 02:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:02*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.5**		5.02		mg/Kg			06/27/23 13:47	1

Client Sample ID: BF-7

Date Collected: 06/19/23 11:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-7
Matrix: Solid

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		06/23/23 12:14	06/25/23 06:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:14	06/25/23 06:09	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 06:09	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 06:09	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 06:09	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*06/23/23 12:14*	*06/25/23 06:09*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/23 12:14*	*06/25/23 06:09*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 02:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 02:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: BF-7 Lab Sample ID: 880-29934-7
Date Collected: 06/19/23 11:30 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 13:53	06/26/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:22*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.6**		5.05		mg/Kg			06/27/23 13:53	1

Client Sample ID: BF-8 Lab Sample ID: 880-29934-8
Date Collected: 06/19/23 11:35 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:14	06/25/23 06:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:14	06/25/23 06:29	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 06:29	1
m,p-Xylenes	<0.00404	U *+	0.00404		mg/Kg		06/23/23 12:14	06/25/23 06:29	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 06:29	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		06/23/23 12:14	06/25/23 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/23/23 12:14*	*06/25/23 06:29*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/23 12:14*	*06/25/23 06:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 02:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 02:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:43*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*06/23/23 13:53*	*06/26/23 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.8**		5.00		mg/Kg			06/27/23 13:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-9

Date Collected: 06/19/23 11:40
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-9
Matrix: Solid

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		06/23/23 12:14	06/25/23 06:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 06:50	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 06:50	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		06/23/23 12:14	06/25/23 06:50	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 06:50	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		06/23/23 12:14	06/25/23 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*06/23/23 12:14*	*06/25/23 06:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/23/23 12:14*	*06/25/23 06:50*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 03:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*06/23/23 13:53*	*06/26/23 03:04*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*06/23/23 13:53*	*06/26/23 03:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.0**		4.96		mg/Kg			06/27/23 14:04	1

Client Sample ID: BF-10

Date Collected: 06/19/23 11:45
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-10
Matrix: Solid

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		06/23/23 12:14	06/25/23 07:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:14	06/25/23 07:11	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 07:11	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 07:11	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 07:11	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/23/23 12:14*	*06/25/23 07:11*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/23/23 12:14*	*06/25/23 07:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-10

Date Collected: 06/19/23 11:45
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-10
Matrix: Solid

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 03:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 03:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*06/23/23 13:53*	*06/26/23 03:24*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*06/23/23 13:53*	*06/26/23 03:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.5**		4.99		mg/Kg			06/27/23 14:10	1

Client Sample ID: BF-11

Date Collected: 06/19/23 11:50
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-11
Matrix: Solid

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		06/23/23 12:14	06/25/23 08:36	1
Toluene	**0.00273**		0.00200		mg/Kg		06/23/23 12:14	06/25/23 08:36	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 08:36	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		06/23/23 12:14	06/25/23 08:36	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 08:36	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		06/23/23 12:14	06/25/23 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/23/23 12:14*	*06/25/23 08:36*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/23/23 12:14*	*06/25/23 08:36*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 05:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 13:53	06/26/23 05:12	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-11

Date Collected: 06/19/23 11:50
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-11
Matrix: Solid

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		06/23/23 13:53	06/26/23 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:12*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		4.98		mg/Kg			06/27/23 14:16	1

Client Sample ID: BF-12

Date Collected: 06/19/23 11:55
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-12
Matrix: Solid

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		06/23/23 12:14	06/25/23 08:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:14	06/25/23 08:57	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		06/23/23 12:14	06/25/23 08:57	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		06/23/23 12:14	06/25/23 08:57	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		06/23/23 12:14	06/25/23 08:57	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		06/23/23 12:14	06/25/23 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/23/23 12:14*	*06/25/23 08:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/23/23 12:14*	*06/25/23 08:57*	*1*

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 05:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 05:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:32*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		5.00		mg/Kg			06/27/23 14:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-13

Date Collected: 06/19/23 12:00
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-13
Matrix: Solid

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		06/23/23 12:14	06/25/23 09:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:17	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:17	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 09:17	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:17	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*06/23/23 12:14*	*06/25/23 09:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/23/23 12:14*	*06/25/23 09:17*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 05:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 05:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:53*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*06/23/23 13:53*	*06/26/23 05:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**299**		4.95		mg/Kg			06/27/23 14:39	1

Client Sample ID: BF-14

Date Collected: 06/19/23 12:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-14
Matrix: Solid

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		06/23/23 12:14	06/25/23 09:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 09:38	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 09:38	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 09:38	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 09:38	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/23/23 12:14*	*06/25/23 09:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/23/23 12:14*	*06/25/23 09:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-14

Date Collected: 06/19/23 12:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-14
Matrix: Solid

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 06:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 13:53	06/26/23 06:13	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 13:53	06/26/23 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:13*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		4.98		mg/Kg			06/27/23 14:57	1

Client Sample ID: BF-15

Date Collected: 06/19/23 12:10
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-15
Matrix: Solid

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		06/23/23 12:14	06/25/23 09:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:59	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:59	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 09:59	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/23/23 12:14	06/25/23 09:59	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/23/23 12:14	06/25/23 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/23/23 12:14*	*06/25/23 09:59*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/23/23 12:14*	*06/25/23 09:59*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 06:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 06:33	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: BF-15 Lab Sample ID: 880-29934-15

Date Collected: 06/19/23 12:10 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 13:53	06/26/23 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:33*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		5.03		mg/Kg			06/27/23 15:03	1

Client Sample ID: BF-16 Lab Sample ID: 880-29934-16

Date Collected: 06/19/23 12:15 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:14	06/25/23 10:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:14	06/25/23 10:20	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 10:20	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 10:20	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		06/23/23 12:14	06/25/23 10:20	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		06/23/23 12:14	06/25/23 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/23/23 12:14*	*06/25/23 10:20*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/23/23 12:14*	*06/25/23 10:20*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 06:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 06:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:56*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*06/23/23 13:53*	*06/26/23 06:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		5.04		mg/Kg			06/27/23 15:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-17

Date Collected: 06/19/23 12:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-17
Matrix: Solid

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		06/23/23 12:14	06/25/23 10:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:14	06/25/23 10:40	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 10:40	1
m,p-Xylenes	<0.00404	U *+	0.00404		mg/Kg		06/23/23 12:14	06/25/23 10:40	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 10:40	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		06/23/23 12:14	06/25/23 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/23/23 12:14*	*06/25/23 10:40*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/23/23 12:14*	*06/25/23 10:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 07:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 07:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*06/23/23 13:53*	*06/26/23 07:18*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*06/23/23 13:53*	*06/26/23 07:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		4.97		mg/Kg			06/27/23 15:14	1

Client Sample ID: BF-18

Date Collected: 06/19/23 12:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-18
Matrix: Solid

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		06/23/23 12:14	06/25/23 11:01	1
Toluene	**0.00314**		0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:01	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:01	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		06/23/23 12:14	06/25/23 11:01	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:01	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		06/23/23 12:14	06/25/23 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/23/23 12:14*	*06/25/23 11:01*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/23/23 12:14*	*06/25/23 11:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-18

Date Collected: 06/19/23 12:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-18
Matrix: Solid

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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 07:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 07:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*06/23/23 13:53*	*06/26/23 07:40*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*06/23/23 13:53*	*06/26/23 07:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**201**		5.05		mg/Kg			06/27/23 15:20	1

Client Sample ID: BF-19

Date Collected: 06/19/23 12:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-19
Matrix: Solid

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		06/23/23 12:14	06/25/23 11:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:22	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:22	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 11:22	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/23/23 12:14	06/25/23 11:22	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		06/23/23 12:14	06/25/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/23/23 12:14*	*06/25/23 11:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 12:14*	*06/25/23 11:22*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 08:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/26/23 08:02	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: BF-19 Lab Sample ID: 880-29934-19

Date Collected: 06/19/23 12:30 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 13:53	06/26/23 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*06/23/23 13:53*	*06/26/23 08:02*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*06/23/23 13:53*	*06/26/23 08:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.02		mg/Kg			06/27/23 15:26	1

Client Sample ID: BF-20 Lab Sample ID: 880-29934-20

Date Collected: 06/19/23 12:35 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:14	06/25/23 11:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:14	06/25/23 11:43	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 11:43	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		06/23/23 12:14	06/25/23 11:43	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		06/23/23 12:14	06/25/23 11:43	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		06/23/23 12:14	06/25/23 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/23/23 12:14*	*06/25/23 11:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/23/23 12:14*	*06/25/23 11:43*	*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			06/26/23 08:56	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			06/26/23 10:51	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		06/23/23 13:53	06/26/23 08:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 08:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:53	06/26/23 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*06/23/23 13:53*	*06/26/23 08:24*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*06/23/23 13:53*	*06/26/23 08:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		4.99		mg/Kg			06/27/23 15:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-265, 4.1'

Date Collected: 06/20/23 11:00
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-21
Matrix: Solid

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		06/23/23 15:40	06/25/23 06:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 15:40	06/25/23 06:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 15:40	06/25/23 06:01	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/23/23 15:40	06/25/23 06:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 15:40	06/25/23 06:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/23/23 15:40	06/25/23 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:01*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:01*	*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			06/26/23 09:22	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 13:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0.1*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 13:02*	*1*
o-Terphenyl (Surr)	*0.3*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**522**		4.99		mg/Kg			06/27/23 11:36	1

Client Sample ID: C-267, 4.1'

Date Collected: 06/20/23 11:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-22
Matrix: Solid

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		06/23/23 15:40	06/25/23 06:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/23/23 15:40	06/25/23 06:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 15:40	06/25/23 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:21*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-267, 4.1'

Lab Sample ID: 880-29934-22
Matrix: Solid
Date Collected: 06/20/23 11:05
Date Received: 06/23/23 08:27

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			06/26/23 09:22	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 14:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0.4*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 14:10*	*1*
o-Terphenyl (Surr)	*0.6*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**437**		5.04		mg/Kg			06/27/23 11:52	1

Client Sample ID: C-264, 4.1'

Lab Sample ID: 880-29934-23
Matrix: Solid
Date Collected: 06/20/23 11:15
Date Received: 06/23/23 08:27

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		06/23/23 15:40	06/25/23 06:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:42	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/23/23 15:40	06/25/23 06:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 15:40	06/25/23 06:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 15:40	06/25/23 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:42*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*06/23/23 15:40*	*06/25/23 06:42*	*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			06/26/23 09:22	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 18:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 16:24	06/25/23 18:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: C-264, 4.1'
Lab Sample ID: 880-29934-23
Date Collected: 06/20/23 11:15 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 16:24	06/25/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0.4*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 18:12*	*1*
o-Terphenyl (Surr)	*0.6*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**264**		4.98		mg/Kg			06/27/23 11:57	1

Client Sample ID: C-269a, 0-4.1'
Lab Sample ID: 880-29934-24
Date Collected: 06/20/23 11:10 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 01:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:27	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 01:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/23/23 12:05*	*06/24/23 01:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/23 12:05*	*06/24/23 01:27*	*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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 18:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 18:37	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0.4*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 18:37*	*1*
o-Terphenyl (Surr)	*2*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 18:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**128**		4.95		mg/Kg			06/27/23 12:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-269b, 0-4.1'

Lab Sample ID: 880-29934-25
Matrix: Solid
Date Collected: 06/20/23 11:20
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 01:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 01:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 01:48	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/23/23 12:05	06/24/23 01:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 01:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/23/23 12:05	06/24/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/23/23 12:05*	*06/24/23 01:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/23/23 12:05*	*06/24/23 01:48*	*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			06/26/23 08:48	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			06/26/23 11:27	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		06/23/23 13:55	06/24/23 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*06/23/23 13:55*	*06/24/23 03:52*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*06/23/23 13:55*	*06/24/23 03:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**428**		5.05		mg/Kg			06/27/23 12:07	1

Client Sample ID: C-269c, 0-4.1'

Lab Sample ID: 880-29934-26
Matrix: Solid
Date Collected: 06/20/23 11:25
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 02:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 02:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 02:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 02:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 02:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/23/23 12:05*	*06/24/23 02:08*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/23/23 12:05*	*06/24/23 02:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-269c, 0-4.1'

Lab Sample ID: 880-29934-26
Matrix: Solid
Date Collected: 06/20/23 11:25
Date Received: 06/23/23 08:27

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			06/26/23 08:48	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			06/26/23 11:27	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		06/23/23 13:55	06/24/23 04:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 04:14	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/24/23 04:14*	*1*
o-Terphenyl (Surr)	*149*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/24/23 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**566**		4.97		mg/Kg			06/27/23 12:23	1

Client Sample ID: C-248, 4.1'

Lab Sample ID: 880-29934-27
Matrix: Solid
Date Collected: 06/20/23 12:00
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 04:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 04:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 04:34	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 04:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 04:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/23/23 12:05*	*06/24/23 04:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/23/23 12:05*	*06/24/23 04:34*	*1*

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			06/26/23 08:48	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			06/26/23 11:27	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		06/23/23 13:55	06/24/23 04:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 04:37	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: C-248, 4.1' Lab Sample ID: 880-29934-27

Date Collected: 06/20/23 12:00 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 13:55	06/24/23 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*06/23/23 13:55*	*06/24/23 04:37*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*06/23/23 13:55*	*06/24/23 04:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		4.95		mg/Kg			06/27/23 12:28	1

Client Sample ID: C-263, 0-2' Lab Sample ID: 880-29934-28

Date Collected: 06/21/23 09:00 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 04:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 04:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 04:55	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 04:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 04:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/23/23 12:05*	*06/24/23 04:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/23/23 12:05*	*06/24/23 04:55*	*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			06/26/23 08:48	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			06/26/23 11:27	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		06/23/23 13:55	06/24/23 04:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 04:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*06/23/23 13:55*	*06/24/23 04:58*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*06/23/23 13:55*	*06/24/23 04:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		4.95		mg/Kg			06/27/23 12:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-159, 4.1'

Lab Sample ID: 880-29934-29
Matrix: Solid
Date Collected: 06/21/23 10:00
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 05:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 05:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*06/23/23 12:05*	*06/24/23 05:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/23 12:05*	*06/24/23 05:16*	*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			06/26/23 08:48	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			06/27/23 09:16	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		06/23/23 14:53	06/26/23 16:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 14:53	06/26/23 16:58	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 14:53	06/26/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*06/23/23 14:53*	*06/26/23 16:58*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*06/23/23 14:53*	*06/26/23 16:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.8**		5.03		mg/Kg			06/27/23 12:38	1

Client Sample ID: C-166, 4.1'

Lab Sample ID: 880-29934-30
Matrix: Solid
Date Collected: 06/21/23 10:05
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 05:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 05:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 05:36	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 05:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 05:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/23/23 12:05*	*06/24/23 05:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/23/23 12:05*	*06/24/23 05:36*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-166, 4.1'

Lab Sample ID: 880-29934-30
Matrix: Solid
Date Collected: 06/21/23 10:05
Date Received: 06/23/23 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/26/23 08:48	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			06/27/23 09:16	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		06/23/23 14:53	06/26/23 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 14:53	06/26/23 17:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 14:53	06/26/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*06/23/23 14:53*	*06/26/23 17:21*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*06/23/23 14:53*	*06/26/23 17:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.0**		4.98		mg/Kg			06/27/23 12:44	1

Client Sample ID: C-167, 4.1'

Lab Sample ID: 880-29934-31
Matrix: Solid
Date Collected: 06/21/23 10:10
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 05:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 05:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 05:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/23/23 12:05*	*06/24/23 05:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 12:05*	*06/24/23 05:57*	*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			06/26/23 08:48	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			06/27/23 09:16	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		06/23/23 14:53	06/26/23 17:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 14:53	06/26/23 17:45	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: C-167, 4.1' Lab Sample ID: 880-29934-31

Date Collected: 06/21/23 10:10 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 14:53	06/26/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*06/23/23 14:53*	*06/26/23 17:45*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*06/23/23 14:53*	*06/26/23 17:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		5.00		mg/Kg			06/27/23 12:49	1

Client Sample ID: C-169, 4.1' Lab Sample ID: 880-29934-32

Date Collected: 06/21/23 10:15 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 06:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 06:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 06:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 06:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 06:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*06/23/23 12:05*	*06/24/23 06:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/23/23 12:05*	*06/24/23 06:18*	*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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 16:24	06/25/23 20:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 16:24	06/25/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*06/23/23 16:24*	*06/25/23 20:15*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*06/23/23 16:24*	*06/25/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.01		mg/Kg			06/27/23 13:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-172, 4.1'

Lab Sample ID: 880-29934-33
Matrix: Solid
Date Collected: 06/21/23 10:20
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 06:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 06:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 06:39	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 06:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 06:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 06:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/23/23 12:05*	*06/24/23 06:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 12:05*	*06/24/23 06:39*	*1*

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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 20:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 20:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*06/23/23 16:24*	*06/25/23 20:37*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*06/23/23 16:24*	*06/25/23 20:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**156**		5.05		mg/Kg			06/27/23 13:09	1

Client Sample ID: C-173, 4.1'

Lab Sample ID: 880-29934-34
Matrix: Solid
Date Collected: 06/21/23 10:25
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 07:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 07:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 07:00	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 07:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 07:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-173, 4.1'

Date Collected: 06/21/23 10:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-34
Matrix: Solid

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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 21:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 21:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 21:00*	*1*
o-Terphenyl (Surr)	*62*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 21:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.5**		5.05		mg/Kg			06/27/23 13:25	1

Client Sample ID: C-175, 4.1'

Date Collected: 06/21/23 10:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-35
Matrix: Solid

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		06/23/23 12:05	06/24/23 07:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 07:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 07:20	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 07:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 07:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/23/23 12:05	06/24/23 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:20*	*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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 21:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 16:24	06/25/23 21:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

Client Sample ID: C-175, 4.1'
Lab Sample ID: 880-29934-35
Date Collected: 06/21/23 10:30 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 16:24	06/25/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*55*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 21:22*	*1*
o-Terphenyl (Surr)	*57*	*S1-*	*70 - 130*	*06/23/23 16:24*	*06/25/23 21:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		4.99		mg/Kg			06/27/23 13:30	1

Client Sample ID: C-179, 4.1'
Lab Sample ID: 880-29934-36
Date Collected: 06/21/23 10:35 **Matrix: Solid**
Date Received: 06/23/23 08:27

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		06/23/23 12:05	06/24/23 07:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 07:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 07:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 07:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 12:05	06/24/23 07:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 12:05	06/24/23 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:41*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 12:05*	*06/24/23 07:41*	*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			06/26/23 08:48	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			06/26/23 10:51	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		06/23/23 16:24	06/25/23 21:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 21:44	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 16:24	06/25/23 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*06/23/23 16:24*	*06/25/23 21:44*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*06/23/23 16:24*	*06/25/23 21:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.6**		4.97		mg/Kg			06/27/23 13:35	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-29934-1	BF-1	119	89										
880-29934-1 MS	BF-1	128	88										
880-29934-1 MSD	BF-1	142 S1+	85										
880-29934-2	BF-2	122	97										
880-29934-3	BF-3	117	90										
880-29934-4	BF-4	117	93										
880-29934-5	BF-5	127	93										
880-29934-6	BF-6	126	96										
880-29934-7	BF-7	132 S1+	96										
880-29934-8	BF-8	126	96										
880-29934-9	BF-9	154 S1+	92										
880-29934-10	BF-10	116	99										
880-29934-11	BF-11	118	93										
880-29934-12	BF-12	118	100										
880-29934-13	BF-13	134 S1+	98										
880-29934-14	BF-14	119	99										
880-29934-15	BF-15	124	99										
880-29934-16	BF-16	124	98										
880-29934-17	BF-17	123	100										
880-29934-18	BF-18	131 S1+	95										
880-29934-19	BF-19	116	97										
880-29934-20	BF-20	117	101										
880-29934-21	C-265, 4.1'	78	88										
880-29934-22	C-267, 4.1'	91	75										
880-29934-23	C-264, 4.1'	93	79										
880-29934-24	C-269a, 0-4.1'	119	96										
880-29934-25	C-269b, 0-4.1'	116	98										
880-29934-26	C-269c, 0-4.1'	128	101										
880-29934-27	C-248, 4.1'	127	89										
880-29934-28	C-263, 0-2'	123	101										
880-29934-29	C-159, 4.1'	137 S1+	94										
880-29934-30	C-166, 4.1'	115	95										
880-29934-31	C-167, 4.1'	117	97										
880-29934-32	C-169, 4.1'	129	95										
880-29934-33	C-172, 4.1'	131 S1+	97										
880-29934-34	C-173, 4.1'	119	94										
880-29934-35	C-175, 4.1'	113	95										
880-29934-36	C-179, 4.1'	119	97										
LCS 880-56204/1-A	Lab Control Sample	111	103										
LCS 880-56205/1-A	Lab Control Sample	148 S1+	88										
LCS 880-56224/1-A	Lab Control Sample	107	100										
LCSD 880-56204/2-A	Lab Control Sample Dup	106	92										
LCSD 880-56205/2-A	Lab Control Sample Dup	170 S1+	91										
LCSD 880-56224/2-A	Lab Control Sample Dup	108	102										
MB 880-56108/5-B	Method Blank	116	77										
MB 880-56204/5-A	Method Blank	104	86										
MB 880-56205/5-A	Method Blank	105	84										
MB 880-56223/5-A	Method Blank	102	88										
MB 880-56224/5-A	Method Blank	69 S1-	94										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
MB 880-56255/5-A	Method Blank	66 S1-	102

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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-29934-1	BF-1	97	100
880-29934-1 MS	BF-1	101	91
880-29934-1 MSD	BF-1	104	92
880-29934-2	BF-2	95	98
880-29934-3	BF-3	100	103
880-29934-4	BF-4	92	94
880-29934-5	BF-5	91	95
880-29934-6	BF-6	93	96
880-29934-7	BF-7	87	91
880-29934-8	BF-8	88	91
880-29934-9	BF-9	88	92
880-29934-10	BF-10	89	93
880-29934-11	BF-11	85	78
880-29934-12	BF-12	87	87
880-29934-13	BF-13	100	91
880-29934-14	BF-14	106	99
880-29934-15	BF-15	113	101
880-29934-16	BF-16	117	107
880-29934-17	BF-17	103	106
880-29934-18	BF-18	82	72
880-29934-19	BF-19	87	92
880-29934-20	BF-20	81	74
880-29934-21	C-265, 4.1'	0.1 S1-	0.3 S1-
880-29934-21 MS	C-265, 4.1'	98	88
880-29934-21 MSD	C-265, 4.1'	97	89
880-29934-22	C-267, 4.1'	0.4 S1-	0.6 S1-
880-29934-23	C-264, 4.1'	0.4 S1-	0.6 S1-
880-29934-24	C-269a, 0-4.1'	0.4 S1-	2 S1-
880-29934-25	C-269b, 0-4.1'	111	129
880-29934-26	C-269c, 0-4.1'	132 S1+	149 S1+
880-29934-27	C-248, 4.1'	109	129
880-29934-28	C-263, 0-2'	110	125
880-29934-29	C-159, 4.1'	73	80
880-29934-30	C-166, 4.1'	124	136 S1+
880-29934-31	C-167, 4.1'	121	136 S1+
880-29934-32	C-169, 4.1'	90	96
880-29934-33	C-172, 4.1'	83	89
880-29934-34	C-173, 4.1'	60 S1-	62 S1-
880-29934-35	C-175, 4.1'	55 S1-	57 S1-

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

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)										
880-29934-36	C-179, 4.1'	85	88										
LCS 880-56209/2-A	Lab Control Sample	97	101										
LCS 880-56210/2-A	Lab Control Sample	84	96										
LCS 880-56217/2-A	Lab Control Sample	97	109										
LCS 880-56232/2-A	Lab Control Sample	94	99										
LCSD 880-56209/3-A	Lab Control Sample Dup	93	92										
LCSD 880-56210/3-A	Lab Control Sample Dup	99	112										
LCSD 880-56217/3-A	Lab Control Sample Dup	82	90										
LCSD 880-56232/3-A	Lab Control Sample Dup	92	90										
MB 880-56209/1-A	Method Blank	104	110										
MB 880-56210/1-A	Method Blank	165 S1+	184 S1+										
MB 880-56217/1-A	Method Blank	88	102										
MB 880-56232/1-A	Method Blank	103	109										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56108/5-B
Matrix: Solid
Analysis Batch: 56149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56108

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/23/23 10:33*	*06/23/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/23/23 10:33*	*06/23/23 11:44*	*1*

Lab Sample ID: MB 880-56204/5-A
Matrix: Solid
Analysis Batch: 56149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56204

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/23/23 12:05*	*06/23/23 23:41*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/23/23 12:05*	*06/23/23 23:41*	*1*

Lab Sample ID: LCS 880-56204/1-A
Matrix: Solid
Analysis Batch: 56149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56204

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09204		mg/Kg		92	70 - 130		
Toluene			0.100	0.1063		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.2103		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1019		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-56204/2-A
Matrix: Solid
Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56204

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09646		mg/Kg		96	70 - 130	5	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-56204/2-A
Matrix: Solid
Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56204

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1099		mg/Kg		110	70 - 130	3	35
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	1	35
m,p-Xylenes			0.200	0.2084		mg/Kg		104	70 - 130	1	35
o-Xylene			0.100	0.1009		mg/Kg		101	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-56205/5-A
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 03:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 12:14	06/25/23 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:14	06/25/23 03:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:14	06/25/23 03:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/23/23 12:14*	*06/25/23 03:43*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/23/23 12:14*	*06/25/23 03:43*	*1*

Lab Sample ID: LCS 880-56205/1-A
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56205

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08017		mg/Kg		80	70 - 130		
Toluene			0.100	0.1162		mg/Kg		116	70 - 130		
Ethylbenzene			0.100	0.1363	*+	mg/Kg		136	70 - 130		
m,p-Xylenes			0.200	0.2827	*+	mg/Kg		141	70 - 130		
o-Xylene			0.100	0.1412	*+	mg/Kg		141	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-56205/2-A
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56205

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07013		mg/Kg		70	70 - 130	13	35
Toluene			0.100	0.1070		mg/Kg		107	70 - 130	8	35
Ethylbenzene			0.100	0.1335	*+	mg/Kg		134	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-56205/2-A
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56205

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.3066	*+	mg/Kg		153	70 - 130	8	35
o-Xylene			0.100	0.1521	*+	mg/Kg		152	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-29934-1 MS
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 56205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.08679		mg/Kg		87	70 - 130
Toluene	<0.00202	U	0.0996	0.1159		mg/Kg		116	70 - 130
Ethylbenzene	<0.00202	U *+	0.0996	0.1143		mg/Kg		115	70 - 130
m,p-Xylenes	<0.00403	U *+ F1	0.199	0.2461		mg/Kg		124	70 - 130
o-Xylene	<0.00202	U *+ F1	0.0996	0.1205		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-29934-1 MSD
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 56205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.08225		mg/Kg		83	70 - 130	5	35
Toluene	<0.00202	U	0.0990	0.1199		mg/Kg		121	70 - 130	3	35
Ethylbenzene	<0.00202	U *+	0.0990	0.1257		mg/Kg		127	70 - 130	9	35
m,p-Xylenes	<0.00403	U *+ F1	0.198	0.2768	F1	mg/Kg		140	70 - 130	12	35
o-Xylene	<0.00202	U *+ F1	0.0990	0.1359	F1	mg/Kg		137	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: MB 880-56223/5-A
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56223

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:31	06/24/23 16:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 15:31	06/24/23 16:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 15:31	06/24/23 16:59	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/23/23 15:31*	*06/24/23 16:59*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/23/23 15:31*	*06/24/23 16:59*	*1*

Lab Sample ID: MB 880-56224/5-A
Matrix: Solid
Analysis Batch: 56253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56224

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:40	06/25/23 00:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:40	06/25/23 00:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:40	06/25/23 00:52	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/23/23 15:40	06/25/23 00:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 15:40	06/25/23 00:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 15:40	06/25/23 00:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*06/23/23 15:40*	*06/25/23 00:52*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/23 15:40*	*06/25/23 00:52*	*1*

Lab Sample ID: LCS 880-56224/1-A
Matrix: Solid
Analysis Batch: 56253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56224

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1138		mg/Kg		114	70 - 130		
Toluene			0.100	0.1071		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130		
m,p-Xylenes			0.200	0.2294		mg/Kg		115	70 - 130		
o-Xylene			0.100	0.1127		mg/Kg		113	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-56224/2-A
Matrix: Solid
Analysis Batch: 56253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56224

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1137		mg/Kg		114	70 - 130	0	35
Toluene			0.100	0.1067		mg/Kg		107	70 - 130	0	35
Ethylbenzene			0.100	0.1059		mg/Kg		106	70 - 130	2	35
m,p-Xylenes			0.200	0.2099		mg/Kg		105	70 - 130	9	35
o-Xylene			0.100	0.1032		mg/Kg		103	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-56255/5-A
Matrix: Solid
Analysis Batch: 56253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56255

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/23 13:41	06/24/23 16:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/23 13:41	06/24/23 16:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/23 13:41	06/24/23 16:56	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/24/23 13:41	06/24/23 16:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/23 13:41	06/24/23 16:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/23 13:41	06/24/23 16:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*06/24/23 13:41*	*06/24/23 16:56*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/24/23 13:41*	*06/24/23 16:56*	*1*

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

Lab Sample ID: MB 880-56209/1-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56209

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		06/23/23 13:53	06/25/23 22:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/25/23 22:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:53	06/25/23 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*06/23/23 13:53*	*06/25/23 22:29*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*06/23/23 13:53*	*06/25/23 22:29*	*1*

Lab Sample ID: LCS 880-56209/2-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.2		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-56209/3-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56209

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.5		mg/Kg		92	70 - 130	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-56209/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56262 — **Prep Batch: 56209**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	999.7		mg/Kg		100	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-29934-1 MS — **Client Sample ID: BF-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56262 — **Prep Batch: 56209**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	987.0		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1097		mg/Kg		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*101*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-29934-1 MSD — **Client Sample ID: BF-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56262 — **Prep Batch: 56209**

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	<49.8	U	997	1026		mg/Kg		103	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1145		mg/Kg		115	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-56210/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56147 — **Prep Batch: 56210**

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		06/23/23 13:55	06/23/23 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/23/23 21:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/23/23 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*165*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/23/23 21:52*	*1*
o-Terphenyl (Surr)	*184*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/23/23 21:52*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-56210/2-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	997.7		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	943.5		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-56210/3-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	975.5		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-56217/1-A
Matrix: Solid
Analysis Batch: 56266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56217

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		06/23/23 14:53	06/26/23 08:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 14:53	06/26/23 08:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 14:53	06/26/23 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*06/23/23 14:53*	*06/26/23 08:31*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*06/23/23 14:53*	*06/26/23 08:31*	*1*

Lab Sample ID: LCS 880-56217/2-A
Matrix: Solid
Analysis Batch: 56266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56217

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	950.7		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	939.4		mg/Kg		94	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-56217/2-A
Matrix: Solid
Analysis Batch: 56266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56217

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-56217/3-A
Matrix: Solid
Analysis Batch: 56266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	939.8		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	899.1		mg/Kg		90	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	82		70 - 130
o-Terphenyl (Surr)	90		70 - 130

Lab Sample ID: MB 880-56232/1-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56232

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		06/23/23 16:24	06/25/23 10:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 16:24	06/25/23 10:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 16:24	06/25/23 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	06/23/23 16:24	06/25/23 10:25	1
o-Terphenyl (Surr)	109		70 - 130	06/23/23 16:24	06/25/23 10:25	1

Lab Sample ID: LCS 880-56232/2-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	878.7		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)			1000	977.3		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	99		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-56232/3-A
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	828.6		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	975.6		mg/Kg		98	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-29934-21 MS
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: C-265, 4.1'
Prep Type: Total/NA
Prep Batch: 56232

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	998	990.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1078		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-29934-21 MSD
Matrix: Solid
Analysis Batch: 56262

Client Sample ID: C-265, 4.1'
Prep Type: Total/NA
Prep Batch: 56232

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	997	984.1		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1072		mg/Kg		106	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56177/1-A
Matrix: Solid
Analysis Batch: 56393

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			06/27/23 12:37	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-56177/2-A
Matrix: Solid
Analysis Batch: 56393

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-56177/3-A
Matrix: Solid
Analysis Batch: 56393

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	241.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-29934-1 MS
Matrix: Solid
Analysis Batch: 56393

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	44.0		251	279.9		mg/Kg		94	90 - 110		

Lab Sample ID: 880-29934-1 MSD
Matrix: Solid
Analysis Batch: 56393

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.0		251	279.7		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-29934-11 MS
Matrix: Solid
Analysis Batch: 56393

Client Sample ID: BF-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	120		249	360.3		mg/Kg		97	90 - 110		

Lab Sample ID: 880-29934-11 MSD
Matrix: Solid
Analysis Batch: 56393

Client Sample ID: BF-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		249	360.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-56178/1-A
Matrix: Solid
Analysis Batch: 56394

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			06/27/23 11:21	1

Lab Sample ID: LCS 880-56178/2-A
Matrix: Solid
Analysis Batch: 56394

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-56178/3-A
Matrix: Solid
Analysis Batch: 56394

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	249.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-29934-21 MS
Matrix: Solid
Analysis Batch: 56394

Client Sample ID: C-265, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	522		250	746.6		mg/Kg		90	90 - 110

Lab Sample ID: 880-29934-21 MSD
Matrix: Solid
Analysis Batch: 56394

Client Sample ID: C-265, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	522		250	747.8		mg/Kg		90	90 - 110	0	20

Lab Sample ID: 880-29934-31 MS
Matrix: Solid
Analysis Batch: 56394

Client Sample ID: C-167, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	123		250	376.2		mg/Kg		101	90 - 110

Lab Sample ID: 880-29934-31 MSD
Matrix: Solid
Analysis Batch: 56394

Client Sample ID: C-167, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	123		250	388.5		mg/Kg		106	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC VOA

Prep Batch: 56108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56108/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	8021B	56204
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	8021B	56204
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	8021B	56204
880-29934-27	C-248, 4.1'	Total/NA	Solid	8021B	56204
880-29934-28	C-263, 0-2'	Total/NA	Solid	8021B	56204
880-29934-29	C-159, 4.1'	Total/NA	Solid	8021B	56204
880-29934-30	C-166, 4.1'	Total/NA	Solid	8021B	56204
880-29934-31	C-167, 4.1'	Total/NA	Solid	8021B	56204
880-29934-32	C-169, 4.1'	Total/NA	Solid	8021B	56204
880-29934-33	C-172, 4.1'	Total/NA	Solid	8021B	56204
880-29934-34	C-173, 4.1'	Total/NA	Solid	8021B	56204
880-29934-35	C-175, 4.1'	Total/NA	Solid	8021B	56204
880-29934-36	C-179, 4.1'	Total/NA	Solid	8021B	56204
MB 880-56108/5-B	Method Blank	Total/NA	Solid	8021B	56108
MB 880-56204/5-A	Method Blank	Total/NA	Solid	8021B	56204
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	8021B	56204
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56204

Prep Batch: 56204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	5035	
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	5035	
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	5035	
880-29934-27	C-248, 4.1'	Total/NA	Solid	5035	
880-29934-28	C-263, 0-2'	Total/NA	Solid	5035	
880-29934-29	C-159, 4.1'	Total/NA	Solid	5035	
880-29934-30	C-166, 4.1'	Total/NA	Solid	5035	
880-29934-31	C-167, 4.1'	Total/NA	Solid	5035	
880-29934-32	C-169, 4.1'	Total/NA	Solid	5035	
880-29934-33	C-172, 4.1'	Total/NA	Solid	5035	
880-29934-34	C-173, 4.1'	Total/NA	Solid	5035	
880-29934-35	C-175, 4.1'	Total/NA	Solid	5035	
880-29934-36	C-179, 4.1'	Total/NA	Solid	5035	
MB 880-56204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 56205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	5035	
880-29934-2	BF-2	Total/NA	Solid	5035	
880-29934-3	BF-3	Total/NA	Solid	5035	
880-29934-4	BF-4	Total/NA	Solid	5035	
880-29934-5	BF-5	Total/NA	Solid	5035	
880-29934-6	BF-6	Total/NA	Solid	5035	
880-29934-7	BF-7	Total/NA	Solid	5035	
880-29934-8	BF-8	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC VOA (Continued)

Prep Batch: 56205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-9	BF-9	Total/NA	Solid	5035	
880-29934-10	BF-10	Total/NA	Solid	5035	
880-29934-11	BF-11	Total/NA	Solid	5035	
880-29934-12	BF-12	Total/NA	Solid	5035	
880-29934-13	BF-13	Total/NA	Solid	5035	
880-29934-14	BF-14	Total/NA	Solid	5035	
880-29934-15	BF-15	Total/NA	Solid	5035	
880-29934-16	BF-16	Total/NA	Solid	5035	
880-29934-17	BF-17	Total/NA	Solid	5035	
880-29934-18	BF-18	Total/NA	Solid	5035	
880-29934-19	BF-19	Total/NA	Solid	5035	
880-29934-20	BF-20	Total/NA	Solid	5035	
MB 880-56205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29934-1 MS	BF-1	Total/NA	Solid	5035	
880-29934-1 MSD	BF-1	Total/NA	Solid	5035	

Prep Batch: 56223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56223/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 56224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-21	C-265, 4.1'	Total/NA	Solid	5035	
880-29934-22	C-267, 4.1'	Total/NA	Solid	5035	
880-29934-23	C-264, 4.1'	Total/NA	Solid	5035	
MB 880-56224/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56224/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56224/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 56253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-21	C-265, 4.1'	Total/NA	Solid	8021B	56224
880-29934-22	C-267, 4.1'	Total/NA	Solid	8021B	56224
880-29934-23	C-264, 4.1'	Total/NA	Solid	8021B	56224
MB 880-56224/5-A	Method Blank	Total/NA	Solid	8021B	56224
MB 880-56255/5-A	Method Blank	Total/NA	Solid	8021B	56255
LCS 880-56224/1-A	Lab Control Sample	Total/NA	Solid	8021B	56224
LCSD 880-56224/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56224

Analysis Batch: 56254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	8021B	56205
880-29934-2	BF-2	Total/NA	Solid	8021B	56205
880-29934-3	BF-3	Total/NA	Solid	8021B	56205
880-29934-4	BF-4	Total/NA	Solid	8021B	56205
880-29934-5	BF-5	Total/NA	Solid	8021B	56205
880-29934-6	BF-6	Total/NA	Solid	8021B	56205
880-29934-7	BF-7	Total/NA	Solid	8021B	56205
880-29934-8	BF-8	Total/NA	Solid	8021B	56205

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 56254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-9	BF-9	Total/NA	Solid	8021B	56205
880-29934-10	BF-10	Total/NA	Solid	8021B	56205
880-29934-11	BF-11	Total/NA	Solid	8021B	56205
880-29934-12	BF-12	Total/NA	Solid	8021B	56205
880-29934-13	BF-13	Total/NA	Solid	8021B	56205
880-29934-14	BF-14	Total/NA	Solid	8021B	56205
880-29934-15	BF-15	Total/NA	Solid	8021B	56205
880-29934-16	BF-16	Total/NA	Solid	8021B	56205
880-29934-17	BF-17	Total/NA	Solid	8021B	56205
880-29934-18	BF-18	Total/NA	Solid	8021B	56205
880-29934-19	BF-19	Total/NA	Solid	8021B	56205
880-29934-20	BF-20	Total/NA	Solid	8021B	56205
MB 880-56205/5-A	Method Blank	Total/NA	Solid	8021B	56205
MB 880-56223/5-A	Method Blank	Total/NA	Solid	8021B	56223
LCS 880-56205/1-A	Lab Control Sample	Total/NA	Solid	8021B	56205
LCSD 880-56205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56205
880-29934-1 MS	BF-1	Total/NA	Solid	8021B	56205
880-29934-1 MSD	BF-1	Total/NA	Solid	8021B	56205

Prep Batch: 56255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56255/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	Total BTEX	
880-29934-2	BF-2	Total/NA	Solid	Total BTEX	
880-29934-3	BF-3	Total/NA	Solid	Total BTEX	
880-29934-4	BF-4	Total/NA	Solid	Total BTEX	
880-29934-5	BF-5	Total/NA	Solid	Total BTEX	
880-29934-6	BF-6	Total/NA	Solid	Total BTEX	
880-29934-7	BF-7	Total/NA	Solid	Total BTEX	
880-29934-8	BF-8	Total/NA	Solid	Total BTEX	
880-29934-9	BF-9	Total/NA	Solid	Total BTEX	
880-29934-10	BF-10	Total/NA	Solid	Total BTEX	
880-29934-11	BF-11	Total/NA	Solid	Total BTEX	
880-29934-12	BF-12	Total/NA	Solid	Total BTEX	
880-29934-13	BF-13	Total/NA	Solid	Total BTEX	
880-29934-14	BF-14	Total/NA	Solid	Total BTEX	
880-29934-15	BF-15	Total/NA	Solid	Total BTEX	
880-29934-16	BF-16	Total/NA	Solid	Total BTEX	
880-29934-17	BF-17	Total/NA	Solid	Total BTEX	
880-29934-18	BF-18	Total/NA	Solid	Total BTEX	
880-29934-19	BF-19	Total/NA	Solid	Total BTEX	
880-29934-20	BF-20	Total/NA	Solid	Total BTEX	
880-29934-21	C-265, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-22	C-267, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-23	C-264, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	Total BTEX	
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	Total BTEX	
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 56273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-27	C-248, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-28	C-263, 0-2'	Total/NA	Solid	Total BTEX	
880-29934-29	C-159, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-30	C-166, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-31	C-167, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-32	C-169, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-33	C-172, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-34	C-173, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-35	C-175, 4.1'	Total/NA	Solid	Total BTEX	
880-29934-36	C-179, 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	8015B NM	56210
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	8015B NM	56210
880-29934-27	C-248, 4.1'	Total/NA	Solid	8015B NM	56210
880-29934-28	C-263, 0-2'	Total/NA	Solid	8015B NM	56210
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015B NM	56210
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56210
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56210

Prep Batch: 56209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	8015NM Prep	
880-29934-2	BF-2	Total/NA	Solid	8015NM Prep	
880-29934-3	BF-3	Total/NA	Solid	8015NM Prep	
880-29934-4	BF-4	Total/NA	Solid	8015NM Prep	
880-29934-5	BF-5	Total/NA	Solid	8015NM Prep	
880-29934-6	BF-6	Total/NA	Solid	8015NM Prep	
880-29934-7	BF-7	Total/NA	Solid	8015NM Prep	
880-29934-8	BF-8	Total/NA	Solid	8015NM Prep	
880-29934-9	BF-9	Total/NA	Solid	8015NM Prep	
880-29934-10	BF-10	Total/NA	Solid	8015NM Prep	
880-29934-11	BF-11	Total/NA	Solid	8015NM Prep	
880-29934-12	BF-12	Total/NA	Solid	8015NM Prep	
880-29934-13	BF-13	Total/NA	Solid	8015NM Prep	
880-29934-14	BF-14	Total/NA	Solid	8015NM Prep	
880-29934-15	BF-15	Total/NA	Solid	8015NM Prep	
880-29934-16	BF-16	Total/NA	Solid	8015NM Prep	
880-29934-17	BF-17	Total/NA	Solid	8015NM Prep	
880-29934-18	BF-18	Total/NA	Solid	8015NM Prep	
880-29934-19	BF-19	Total/NA	Solid	8015NM Prep	
880-29934-20	BF-20	Total/NA	Solid	8015NM Prep	
MB 880-56209/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56209/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56209/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29934-1 MS	BF-1	Total/NA	Solid	8015NM Prep	
880-29934-1 MSD	BF-1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC Semi VOA

Prep Batch: 56210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	8015NM Prep	
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	8015NM Prep	
880-29934-27	C-248, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-28	C-263, 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 56217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-29	C-159, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-30	C-166, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-31	C-167, 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-56217/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56217/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 56232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-21	C-265, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-22	C-267, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-23	C-264, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	8015NM Prep	
880-29934-32	C-169, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-33	C-172, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-34	C-173, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-35	C-175, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-36	C-179, 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-56232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29934-21 MS	C-265, 4.1'	Total/NA	Solid	8015NM Prep	
880-29934-21 MSD	C-265, 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	8015B NM	56209
880-29934-2	BF-2	Total/NA	Solid	8015B NM	56209
880-29934-3	BF-3	Total/NA	Solid	8015B NM	56209
880-29934-4	BF-4	Total/NA	Solid	8015B NM	56209
880-29934-5	BF-5	Total/NA	Solid	8015B NM	56209
880-29934-6	BF-6	Total/NA	Solid	8015B NM	56209
880-29934-7	BF-7	Total/NA	Solid	8015B NM	56209
880-29934-8	BF-8	Total/NA	Solid	8015B NM	56209
880-29934-9	BF-9	Total/NA	Solid	8015B NM	56209
880-29934-10	BF-10	Total/NA	Solid	8015B NM	56209
880-29934-11	BF-11	Total/NA	Solid	8015B NM	56209
880-29934-12	BF-12	Total/NA	Solid	8015B NM	56209
880-29934-13	BF-13	Total/NA	Solid	8015B NM	56209
880-29934-14	BF-14	Total/NA	Solid	8015B NM	56209
880-29934-15	BF-15	Total/NA	Solid	8015B NM	56209

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 56262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-16	BF-16	Total/NA	Solid	8015B NM	56209
880-29934-17	BF-17	Total/NA	Solid	8015B NM	56209
880-29934-18	BF-18	Total/NA	Solid	8015B NM	56209
880-29934-19	BF-19	Total/NA	Solid	8015B NM	56209
880-29934-20	BF-20	Total/NA	Solid	8015B NM	56209
880-29934-21	C-265, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-22	C-267, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-23	C-264, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	8015B NM	56232
880-29934-32	C-169, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-33	C-172, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-34	C-173, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-35	C-175, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-36	C-179, 4.1'	Total/NA	Solid	8015B NM	56232
MB 880-56209/1-A	Method Blank	Total/NA	Solid	8015B NM	56209
MB 880-56232/1-A	Method Blank	Total/NA	Solid	8015B NM	56232
LCS 880-56209/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56209
LCS 880-56232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56232
LCSD 880-56209/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56209
LCSD 880-56232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56232
880-29934-1 MS	BF-1	Total/NA	Solid	8015B NM	56209
880-29934-1 MSD	BF-1	Total/NA	Solid	8015B NM	56209
880-29934-21 MS	C-265, 4.1'	Total/NA	Solid	8015B NM	56232
880-29934-21 MSD	C-265, 4.1'	Total/NA	Solid	8015B NM	56232

Analysis Batch: 56266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-29	C-159, 4.1'	Total/NA	Solid	8015B NM	56217
880-29934-30	C-166, 4.1'	Total/NA	Solid	8015B NM	56217
880-29934-31	C-167, 4.1'	Total/NA	Solid	8015B NM	56217
MB 880-56217/1-A	Method Blank	Total/NA	Solid	8015B NM	56217
LCS 880-56217/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56217
LCSD 880-56217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56217

Analysis Batch: 56338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Total/NA	Solid	8015 NM	
880-29934-2	BF-2	Total/NA	Solid	8015 NM	
880-29934-3	BF-3	Total/NA	Solid	8015 NM	
880-29934-4	BF-4	Total/NA	Solid	8015 NM	
880-29934-5	BF-5	Total/NA	Solid	8015 NM	
880-29934-6	BF-6	Total/NA	Solid	8015 NM	
880-29934-7	BF-7	Total/NA	Solid	8015 NM	
880-29934-8	BF-8	Total/NA	Solid	8015 NM	
880-29934-9	BF-9	Total/NA	Solid	8015 NM	
880-29934-10	BF-10	Total/NA	Solid	8015 NM	
880-29934-11	BF-11	Total/NA	Solid	8015 NM	
880-29934-12	BF-12	Total/NA	Solid	8015 NM	
880-29934-13	BF-13	Total/NA	Solid	8015 NM	
880-29934-14	BF-14	Total/NA	Solid	8015 NM	
880-29934-15	BF-15	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 56338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-16	BF-16	Total/NA	Solid	8015 NM	
880-29934-17	BF-17	Total/NA	Solid	8015 NM	
880-29934-18	BF-18	Total/NA	Solid	8015 NM	
880-29934-19	BF-19	Total/NA	Solid	8015 NM	
880-29934-20	BF-20	Total/NA	Solid	8015 NM	
880-29934-21	C-265, 4.1'	Total/NA	Solid	8015 NM	
880-29934-22	C-267, 4.1'	Total/NA	Solid	8015 NM	
880-29934-23	C-264, 4.1'	Total/NA	Solid	8015 NM	
880-29934-24	C-269a, 0-4.1'	Total/NA	Solid	8015 NM	
880-29934-25	C-269b, 0-4.1'	Total/NA	Solid	8015 NM	
880-29934-26	C-269c, 0-4.1'	Total/NA	Solid	8015 NM	
880-29934-27	C-248, 4.1'	Total/NA	Solid	8015 NM	
880-29934-28	C-263, 0-2'	Total/NA	Solid	8015 NM	
880-29934-29	C-159, 4.1'	Total/NA	Solid	8015 NM	
880-29934-30	C-166, 4.1'	Total/NA	Solid	8015 NM	
880-29934-31	C-167, 4.1'	Total/NA	Solid	8015 NM	
880-29934-32	C-169, 4.1'	Total/NA	Solid	8015 NM	
880-29934-33	C-172, 4.1'	Total/NA	Solid	8015 NM	
880-29934-34	C-173, 4.1'	Total/NA	Solid	8015 NM	
880-29934-35	C-175, 4.1'	Total/NA	Solid	8015 NM	
880-29934-36	C-179, 4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Soluble	Solid	DI Leach	
880-29934-2	BF-2	Soluble	Solid	DI Leach	
880-29934-3	BF-3	Soluble	Solid	DI Leach	
880-29934-4	BF-4	Soluble	Solid	DI Leach	
880-29934-5	BF-5	Soluble	Solid	DI Leach	
880-29934-6	BF-6	Soluble	Solid	DI Leach	
880-29934-7	BF-7	Soluble	Solid	DI Leach	
880-29934-8	BF-8	Soluble	Solid	DI Leach	
880-29934-9	BF-9	Soluble	Solid	DI Leach	
880-29934-10	BF-10	Soluble	Solid	DI Leach	
880-29934-11	BF-11	Soluble	Solid	DI Leach	
880-29934-12	BF-12	Soluble	Solid	DI Leach	
880-29934-13	BF-13	Soluble	Solid	DI Leach	
880-29934-14	BF-14	Soluble	Solid	DI Leach	
880-29934-15	BF-15	Soluble	Solid	DI Leach	
880-29934-16	BF-16	Soluble	Solid	DI Leach	
880-29934-17	BF-17	Soluble	Solid	DI Leach	
880-29934-18	BF-18	Soluble	Solid	DI Leach	
880-29934-19	BF-19	Soluble	Solid	DI Leach	
880-29934-20	BF-20	Soluble	Solid	DI Leach	
MB 880-56177/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56177/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56177/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29934-1 MS	BF-1	Soluble	Solid	DI Leach	
880-29934-1 MSD	BF-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 56177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-11 MS	BF-11	Soluble	Solid	DI Leach	
880-29934-11 MSD	BF-11	Soluble	Solid	DI Leach	

Leach Batch: 56178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-21	C-265, 4.1'	Soluble	Solid	DI Leach	
880-29934-22	C-267, 4.1'	Soluble	Solid	DI Leach	
880-29934-23	C-264, 4.1'	Soluble	Solid	DI Leach	
880-29934-24	C-269a, 0-4.1'	Soluble	Solid	DI Leach	
880-29934-25	C-269b, 0-4.1'	Soluble	Solid	DI Leach	
880-29934-26	C-269c, 0-4.1'	Soluble	Solid	DI Leach	
880-29934-27	C-248, 4.1'	Soluble	Solid	DI Leach	
880-29934-28	C-263, 0-2'	Soluble	Solid	DI Leach	
880-29934-29	C-159, 4.1'	Soluble	Solid	DI Leach	
880-29934-30	C-166, 4.1'	Soluble	Solid	DI Leach	
880-29934-31	C-167, 4.1'	Soluble	Solid	DI Leach	
880-29934-32	C-169, 4.1'	Soluble	Solid	DI Leach	
880-29934-33	C-172, 4.1'	Soluble	Solid	DI Leach	
880-29934-34	C-173, 4.1'	Soluble	Solid	DI Leach	
880-29934-35	C-175, 4.1'	Soluble	Solid	DI Leach	
880-29934-36	C-179, 4.1'	Soluble	Solid	DI Leach	
MB 880-56178/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56178/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56178/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29934-21 MS	C-265, 4.1'	Soluble	Solid	DI Leach	
880-29934-21 MSD	C-265, 4.1'	Soluble	Solid	DI Leach	
880-29934-31 MS	C-167, 4.1'	Soluble	Solid	DI Leach	
880-29934-31 MSD	C-167, 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 56393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-1	BF-1	Soluble	Solid	300.0	56177
880-29934-2	BF-2	Soluble	Solid	300.0	56177
880-29934-3	BF-3	Soluble	Solid	300.0	56177
880-29934-4	BF-4	Soluble	Solid	300.0	56177
880-29934-5	BF-5	Soluble	Solid	300.0	56177
880-29934-6	BF-6	Soluble	Solid	300.0	56177
880-29934-7	BF-7	Soluble	Solid	300.0	56177
880-29934-8	BF-8	Soluble	Solid	300.0	56177
880-29934-9	BF-9	Soluble	Solid	300.0	56177
880-29934-10	BF-10	Soluble	Solid	300.0	56177
880-29934-11	BF-11	Soluble	Solid	300.0	56177
880-29934-12	BF-12	Soluble	Solid	300.0	56177
880-29934-13	BF-13	Soluble	Solid	300.0	56177
880-29934-14	BF-14	Soluble	Solid	300.0	56177
880-29934-15	BF-15	Soluble	Solid	300.0	56177
880-29934-16	BF-16	Soluble	Solid	300.0	56177
880-29934-17	BF-17	Soluble	Solid	300.0	56177
880-29934-18	BF-18	Soluble	Solid	300.0	56177
880-29934-19	BF-19	Soluble	Solid	300.0	56177
880-29934-20	BF-20	Soluble	Solid	300.0	56177

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 56393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56177/1-A	Method Blank	Soluble	Solid	300.0	56177
LCS 880-56177/2-A	Lab Control Sample	Soluble	Solid	300.0	56177
LCSD 880-56177/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56177
880-29934-1 MS	BF-1	Soluble	Solid	300.0	56177
880-29934-1 MSD	BF-1	Soluble	Solid	300.0	56177
880-29934-11 MS	BF-11	Soluble	Solid	300.0	56177
880-29934-11 MSD	BF-11	Soluble	Solid	300.0	56177

Analysis Batch: 56394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29934-21	C-265, 4.1'	Soluble	Solid	300.0	56178
880-29934-22	C-267, 4.1'	Soluble	Solid	300.0	56178
880-29934-23	C-264, 4.1'	Soluble	Solid	300.0	56178
880-29934-24	C-269a, 0-4.1'	Soluble	Solid	300.0	56178
880-29934-25	C-269b, 0-4.1'	Soluble	Solid	300.0	56178
880-29934-26	C-269c, 0-4.1'	Soluble	Solid	300.0	56178
880-29934-27	C-248, 4.1'	Soluble	Solid	300.0	56178
880-29934-28	C-263, 0-2'	Soluble	Solid	300.0	56178
880-29934-29	C-159, 4.1'	Soluble	Solid	300.0	56178
880-29934-30	C-166, 4.1'	Soluble	Solid	300.0	56178
880-29934-31	C-167, 4.1'	Soluble	Solid	300.0	56178
880-29934-32	C-169, 4.1'	Soluble	Solid	300.0	56178
880-29934-33	C-172, 4.1'	Soluble	Solid	300.0	56178
880-29934-34	C-173, 4.1'	Soluble	Solid	300.0	56178
880-29934-35	C-175, 4.1'	Soluble	Solid	300.0	56178
880-29934-36	C-179, 4.1'	Soluble	Solid	300.0	56178
MB 880-56178/1-A	Method Blank	Soluble	Solid	300.0	56178
LCS 880-56178/2-A	Lab Control Sample	Soluble	Solid	300.0	56178
LCSD 880-56178/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56178
880-29934-21 MS	C-265, 4.1'	Soluble	Solid	300.0	56178
880-29934-21 MSD	C-265, 4.1'	Soluble	Solid	300.0	56178
880-29934-31 MS	C-167, 4.1'	Soluble	Solid	300.0	56178
880-29934-31 MSD	C-167, 4.1'	Soluble	Solid	300.0	56178

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-1

Lab Sample ID: 880-29934-1

Date Collected: 06/19/23 11:00
Matrix: Solid
Date Received: 06/23/23 08:27

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 04:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 12:54	CH	EET MID

Client Sample ID: BF-2

Lab Sample ID: 880-29934-2

Date Collected: 06/19/23 11:05
Matrix: Solid
Date Received: 06/23/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 04:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:12	CH	EET MID

Client Sample ID: BF-3

Lab Sample ID: 880-29934-3

Date Collected: 06/19/23 11:10
Matrix: Solid
Date Received: 06/23/23 08:27

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 04:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 00:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:18	CH	EET MID

Client Sample ID: BF-4

Lab Sample ID: 880-29934-4

Date Collected: 06/19/23 11:15
Matrix: Solid
Date Received: 06/23/23 08:27

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 05:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-4

Date Collected: 06/19/23 11:15
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-4

Matrix: Solid

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			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 01:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:24	CH	EET MID

Client Sample ID: BF-5

Date Collected: 06/19/23 11:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-5

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 05:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 01:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:29	CH	EET MID

Client Sample ID: BF-6

Date Collected: 06/19/23 11:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-6

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 05:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 02:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:47	CH	EET MID

Client Sample ID: BF-7

Date Collected: 06/19/23 11:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-7

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 06:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 02:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-7

Date Collected: 06/19/23 11:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:53	CH	EET MID

Client Sample ID: BF-8

Date Collected: 06/19/23 11:35
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 06:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 02:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 13:59	CH	EET MID

Client Sample ID: BF-9

Date Collected: 06/19/23 11:40
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-9
Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 06:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 03:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:04	CH	EET MID

Client Sample ID: BF-10

Date Collected: 06/19/23 11:45
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-10
Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 07:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 03:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:10	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-11

Date Collected: 06/19/23 11:50
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-11

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 08:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 05:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:16	CH	EET MID

Client Sample ID: BF-12

Date Collected: 06/19/23 11:55
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-12

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 08:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 05:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:33	CH	EET MID

Client Sample ID: BF-13

Date Collected: 06/19/23 12:00
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-13

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 09:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 05:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:39	CH	EET MID

Client Sample ID: BF-14

Date Collected: 06/19/23 12:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-14

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 09:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-14

Date Collected: 06/19/23 12:05
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-14
Matrix: Solid

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			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 06:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 14:57	CH	EET MID

Client Sample ID: BF-15

Date Collected: 06/19/23 12:10
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-15
Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 09:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 06:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:03	CH	EET MID

Client Sample ID: BF-16

Date Collected: 06/19/23 12:15
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 10:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 06:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:09	CH	EET MID

Client Sample ID: BF-17

Date Collected: 06/19/23 12:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 10:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 07:18	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: BF-17

Date Collected: 06/19/23 12:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-17

Matrix: Solid

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	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:14	CH	EET MID

Client Sample ID: BF-18

Date Collected: 06/19/23 12:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-18

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 11:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 07:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:20	CH	EET MID

Client Sample ID: BF-19

Date Collected: 06/19/23 12:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-19

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 11:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 08:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:26	CH	EET MID

Client Sample ID: BF-20

Date Collected: 06/19/23 12:35
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-20

Matrix: Solid

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	56205	06/23/23 12:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56254	06/25/23 11:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56209	06/23/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/26/23 08:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56177	06/23/23 10:47	KS	EET MID
Soluble	Analysis	300.0		1			56393	06/27/23 15:32	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-265, 4.1'

Lab Sample ID: 880-29934-21
Matrix: Solid
Date Collected: 06/20/23 11:00
Date Received: 06/23/23 08:27

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	56224	06/23/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56253	06/25/23 06:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 09:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 11:36	CH	EET MID

Client Sample ID: C-267, 4.1'

Lab Sample ID: 880-29934-22
Matrix: Solid
Date Collected: 06/20/23 11:05
Date Received: 06/23/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56224	06/23/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56253	06/25/23 06:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 09:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 14:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 11:52	CH	EET MID

Client Sample ID: C-264, 4.1'

Lab Sample ID: 880-29934-23
Matrix: Solid
Date Collected: 06/20/23 11:15
Date Received: 06/23/23 08:27

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	56224	06/23/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56253	06/25/23 06:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 09:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 11:57	CH	EET MID

Client Sample ID: C-269a, 0-4.1'

Lab Sample ID: 880-29934-24
Matrix: Solid
Date Collected: 06/20/23 11:10
Date Received: 06/23/23 08:27

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 01:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-269a, 0-4.1'

Date Collected: 06/20/23 11:10
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-24
Matrix: Solid

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			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 18:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:02	CH	EET MID

Client Sample ID: C-269b, 0-4.1'

Date Collected: 06/20/23 11:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-25
Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 01:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 03:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:07	CH	EET MID

Client Sample ID: C-269c, 0-4.1'

Date Collected: 06/20/23 11:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-26
Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 02:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:23	CH	EET MID

Client Sample ID: C-248, 4.1'

Date Collected: 06/20/23 12:00
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-27
Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 04:37	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-248, 4.1'

Lab Sample ID: 880-29934-27
Matrix: Solid
Date Collected: 06/20/23 12:00
Date Received: 06/23/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:28	CH	EET MID

Client Sample ID: C-263, 0-2'

Lab Sample ID: 880-29934-28
Matrix: Solid
Date Collected: 06/21/23 09:00
Date Received: 06/23/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 04:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 04:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:33	CH	EET MID

Client Sample ID: C-159, 4.1'

Lab Sample ID: 880-29934-29
Matrix: Solid
Date Collected: 06/21/23 10:00
Date Received: 06/23/23 08:27

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 05:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/27/23 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56217	06/23/23 14:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56266	06/26/23 16:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:38	CH	EET MID

Client Sample ID: C-166, 4.1'

Lab Sample ID: 880-29934-30
Matrix: Solid
Date Collected: 06/21/23 10:05
Date Received: 06/23/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 05:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/27/23 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56217	06/23/23 14:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56266	06/26/23 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:44	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-167, 4.1'

Date Collected: 06/21/23 10:10
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-31

Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 05:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/27/23 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56217	06/23/23 14:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56266	06/26/23 17:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 12:49	CH	EET MID

Client Sample ID: C-169, 4.1'

Date Collected: 06/21/23 10:15
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-32

Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 06:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 20:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 13:04	CH	EET MID

Client Sample ID: C-172, 4.1'

Date Collected: 06/21/23 10:20
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-33

Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 06:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 20:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 13:09	CH	EET MID

Client Sample ID: C-173, 4.1'

Date Collected: 06/21/23 10:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-34

Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 07:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Client Sample ID: C-173, 4.1'

Date Collected: 06/21/23 10:25
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-34
Matrix: Solid

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			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 21:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 13:25	CH	EET MID

Client Sample ID: C-175, 4.1'

Date Collected: 06/21/23 10:30
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-35
Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 07:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 21:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 13:30	CH	EET MID

Client Sample ID: C-179, 4.1'

Date Collected: 06/21/23 10:35
Date Received: 06/23/23 08:27

Lab Sample ID: 880-29934-36
Matrix: Solid

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 07:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56273	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56338	06/26/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56232	06/23/23 16:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56262	06/25/23 21:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56178	06/23/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1			56394	06/27/23 13:35	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

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. Job ID: 880-29934-1
Project/Site: Pliney Elder SDG: 22-0107-02

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: Pliney Elder

Job ID: 880-29934-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29934-1	BF-1	Solid	06/19/23 11:00	06/23/23 08:27
880-29934-2	BF-2	Solid	06/19/23 11:05	06/23/23 08:27
880-29934-3	BF-3	Solid	06/19/23 11:10	06/23/23 08:27
880-29934-4	BF-4	Solid	06/19/23 11:15	06/23/23 08:27
880-29934-5	BF-5	Solid	06/19/23 11:20	06/23/23 08:27
880-29934-6	BF-6	Solid	06/19/23 11:25	06/23/23 08:27
880-29934-7	BF-7	Solid	06/19/23 11:30	06/23/23 08:27
880-29934-8	BF-8	Solid	06/19/23 11:35	06/23/23 08:27
880-29934-9	BF-9	Solid	06/19/23 11:40	06/23/23 08:27
880-29934-10	BF-10	Solid	06/19/23 11:45	06/23/23 08:27
880-29934-11	BF-11	Solid	06/19/23 11:50	06/23/23 08:27
880-29934-12	BF-12	Solid	06/19/23 11:55	06/23/23 08:27
880-29934-13	BF-13	Solid	06/19/23 12:00	06/23/23 08:27
880-29934-14	BF-14	Solid	06/19/23 12:05	06/23/23 08:27
880-29934-15	BF-15	Solid	06/19/23 12:10	06/23/23 08:27
880-29934-16	BF-16	Solid	06/19/23 12:15	06/23/23 08:27
880-29934-17	BF-17	Solid	06/19/23 12:20	06/23/23 08:27
880-29934-18	BF-18	Solid	06/19/23 12:25	06/23/23 08:27
880-29934-19	BF-19	Solid	06/19/23 12:30	06/23/23 08:27
880-29934-20	BF-20	Solid	06/19/23 12:35	06/23/23 08:27
880-29934-21	C-265, 4.1'	Solid	06/20/23 11:00	06/23/23 08:27
880-29934-22	C-267, 4.1'	Solid	06/20/23 11:05	06/23/23 08:27
880-29934-23	C-264, 4.1'	Solid	06/20/23 11:15	06/23/23 08:27
880-29934-24	C-269a, 0-4.1'	Solid	06/20/23 11:10	06/23/23 08:27
880-29934-25	C-269b, 0-4.1'	Solid	06/20/23 11:20	06/23/23 08:27
880-29934-26	C-269c, 0-4.1'	Solid	06/20/23 11:25	06/23/23 08:27
880-29934-27	C-248, 4.1'	Solid	06/20/23 12:00	06/23/23 08:27
880-29934-28	C-263, 0-2'	Solid	06/21/23 09:00	06/23/23 08:27
880-29934-29	C-159, 4.1'	Solid	06/21/23 10:00	06/23/23 08:27
880-29934-30	C-166, 4.1'	Solid	06/21/23 10:05	06/23/23 08:27
880-29934-31	C-167, 4.1'	Solid	06/21/23 10:10	06/23/23 08:27
880-29934-32	C-169, 4.1'	Solid	06/21/23 10:15	06/23/23 08:27
880-29934-33	C-172, 4.1'	Solid	06/21/23 10:20	06/23/23 08:27
880-29934-34	C-173, 4.1'	Solid	06/21/23 10:25	06/23/23 08:27
880-29934-35	C-175, 4.1'	Solid	06/21/23 10:30	06/23/23 08:27
880-29934-36	C-179, 4.1'	Solid	06/21/23 10:35	06/23/23 08:27

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29934 No. 3086

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 6-21-23 PAGE 1 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107 COLLECTOR KG

Data Reported to

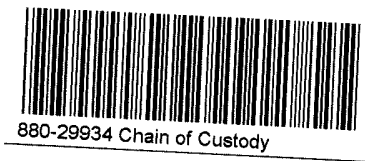
TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State MST | NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
BF-1, 0-1'		6-19-23	1100	S	1				X		X	20z
BF-2, 0-1'			1105									
BF-3, 0-1'			1110									
BF-4, 0-1'			1115									
BF-5, 0-1'			1120									
BF-6, 0-1'			1125									
BF-7, 0-1'			1130									
BF-8, 0-1'			1135									
BF-9, 0-1'			1140									
BF-10, 0-1'			1145									
BF-11, 0-1'			1150									
BF-12, 0-1'			1155									
BF-13, 0-1'			1200									
BF-14, 0-1'			1205									
BF-15, 0-1'			1210									
TOTAL												

ANALYSES: BTEX ☐ MTBE ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐



RELINQUISHED BY (Signature)	DATE/TIME 6.22-23 827	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.2/2.9 THERM# IR8 -36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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29934 2 No. 3087

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 6-21-23 PAGE 2 OF 3

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME Piney Elder

LAI PROJECT # 22-0107 COLLECTOR KG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State MST/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | TOTAL METALS (RCRA) ☐ | Semi-VOC ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | OTHER LIST ☐ | RCI ☐ | TOX ☐ | TCLP ☐ | TDS ☐ | TSS ☐ | FLASHPOINT ☐ | % MOISTURE ☐ | pH ☐ | CYANIDE ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDE ☒ | ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	TRPH 418.1 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	CHLORIDE ☒	FIELD NOTES
BF-16, ~~6~~ 1'		6-19-23	1215	S	1				X		X		X	X	X		
BF-17, ~~6~~ 1'			1220													X	
BF-18, ~~6~~ 1'			1225														
BF-19, ~~6~~ 1'			1230														
BF-20, ~~6~~ 1'			1235														
C-265, 4.1'		6-20-23	1100														
C-267, 4.1'			1105														
C-264, 4.1'			1115														
C-269a, 0.4.1'			1110														
C-269b, 0-4.1'			1120														
C-269c, 0.4.1'			1125														
C-248, 4.1'			1200														
C-263, 0-2'		6-21-23	0900														
C-159, 4.1'			1000														
C-166, 4.1'			1005														
TOTAL																	

RELINQUISHED BY (Signature) DATE/TIME 6-23-23 0827 RECEIVED BY (Signature)

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

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

LABORATORY XENCO

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

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

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29934

No. 3088

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 6-21-23 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Mikey Elder

LAI PROJECT # 22-0107-02 COLLECTOR KG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-167, 4.1'		6-21-23	1010	S	1				X		X				X	X	X																								X				
C-169, 4.1'		6-21-23	1015																																										
C-172, 4.1			1020																																									
C-173, 4.1'			1025																																									
C-175, 4.1'			1030																																									
C-179, 4.1'			1035																																									

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-29934-1
SDG Number: 22-0107-02

Login Number: 29934
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Plihey Elder
SDG NUMBER 3089 3090

JOB NUMBER

880-30039-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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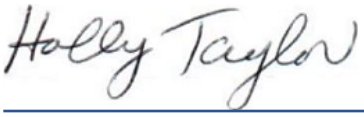
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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6/30/2023 4:30:22 PM

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

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-30039-1
Project/Site: Plihey Elder SDG: 3089 3090

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Job ID: 880-30039-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30039-1

Receipt
The samples were received on 6/27/2023 8:54 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 time was -3.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-103, 4.1' (880-30039-1), C-212, 4.1' (880-30039-2), C-213, 4.1' (880-30039-3), C-214, 4.1' (880-30039-4), C-215, 4.1' (880-30039-5), C-216, 4.1' (880-30039-6), C-217, 4.1' (880-30039-7), C-218, 4.1' (880-30039-8), C-219, 4.1' (880-30039-9), C-220, 4.1' (880-30039-10), C-222, 4.1' (880-30039-11), C-223, 4.1' (880-30039-12), C-224, 4.1' (880-30039-13), C-225, 4.1' (880-30039-14), C-226, 4.1' (880-30039-15) and C-227, 0-4.1' (880-30039-16).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-56454 and 880-56512 and analytical batch 880-56448 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56448 recovered below the lower control limit for m,p-Xylenes. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56448/64).

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-56537/5). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-103, 4.1'

Date Collected: 06/26/23 12:00
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-1
Matrix: Solid

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		06/28/23 15:40	06/29/23 03:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 03:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 03:39	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 03:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 03:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/28/23 15:40*	*06/29/23 03:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/28/23 15:40*	*06/29/23 03:39*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/29/23 22:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/29/23 22:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/29/23 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*06/27/23 14:25*	*06/29/23 22:37*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*06/27/23 14:25*	*06/29/23 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		4.98		mg/Kg			06/29/23 18:46	1

Client Sample ID: C-212, 4.1'

Date Collected: 06/26/23 12:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-2
Matrix: Solid

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		06/28/23 15:40	06/29/23 04:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:05	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/28/23 15:40	06/29/23 04:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/28/23 15:40	06/29/23 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:05*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-212, 4.1'

Lab Sample ID: 880-30039-2
Matrix: Solid
Date Collected: 06/26/23 12:05
Date Received: 06/27/23 08:54

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			06/29/23 10:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**157**		50.0		mg/Kg			06/30/23 11:03	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		06/27/23 14:25	06/29/23 23:44	1
Diesel Range Organics (Over C10-C28)	**157**		50.0		mg/Kg		06/27/23 14:25	06/29/23 23:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/29/23 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*06/27/23 14:25*	*06/29/23 23:44*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*06/27/23 14:25*	*06/29/23 23:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1020**		4.96		mg/Kg			06/29/23 19:03	1

Client Sample ID: C-213, 4.1'

Lab Sample ID: 880-30039-3
Matrix: Solid
Date Collected: 06/26/23 12:10
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 04:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 04:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 04:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 04:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 04:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:30*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:30*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 00:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 00:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-213, 4.1'

Lab Sample ID: 880-30039-3
Matrix: Solid
Date Collected: 06/26/23 12:10
Date Received: 06/27/23 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:07*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1430**		25.1		mg/Kg			06/29/23 19:09	5

Client Sample ID: C-214, 4.1'

Lab Sample ID: 880-30039-4
Matrix: Solid
Date Collected: 06/26/23 12:15
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 04:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:56	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 04:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 04:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/28/23 15:40*	*06/29/23 04:56*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 00:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:29*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**904**		5.03		mg/Kg			06/29/23 19:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-215, 4.1'

Date Collected: 06/26/23 12:20
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-5
Matrix: Solid

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		06/28/23 15:40	06/29/23 05:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 05:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 05:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/28/23 15:40	06/29/23 05:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 05:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/23 15:40	06/29/23 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/23 15:40*	*06/29/23 05:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/23 15:40*	*06/29/23 05:22*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 00:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/30/23 00:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/30/23 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:51*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*06/27/23 14:25*	*06/30/23 00:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**746**		4.99		mg/Kg			06/29/23 19:21	1

Client Sample ID: C-216, 4.1'

Date Collected: 06/26/23 12:25
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-6
Matrix: Solid

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		06/28/23 15:40	06/29/23 05:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 05:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 05:47	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 05:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 05:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/28/23 15:40*	*06/29/23 05:47*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/28/23 15:40*	*06/29/23 05:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-216, 4.1'

Date Collected: 06/26/23 12:25
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-6
Matrix: Solid

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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 01:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 01:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:14*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2410**		25.0		mg/Kg			06/29/23 19:38	5

Client Sample ID: C-217, 4.1'

Date Collected: 06/26/23 12:30
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-7
Matrix: Solid

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		06/28/23 15:40	06/29/23 07:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 07:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 07:31	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/28/23 15:40	06/29/23 07:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 07:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/23 15:40	06/29/23 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/28/23 15:40*	*06/29/23 07:31*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/28/23 15:40*	*06/29/23 07:31*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 01:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/30/23 01:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-217, 4.1'

Lab Sample ID: 880-30039-7
Matrix: Solid
Date Collected: 06/26/23 12:30
Date Received: 06/27/23 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/30/23 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:36*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3270**		25.0		mg/Kg			06/29/23 19:44	5

Client Sample ID: C-218, 4.1'

Lab Sample ID: 880-30039-8
Matrix: Solid
Date Collected: 06/26/23 12:35
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 07:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 07:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 07:57	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/28/23 15:40	06/29/23 07:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/23 15:40	06/29/23 07:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/23 15:40	06/29/23 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/28/23 15:40*	*06/29/23 07:57*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/28/23 15:40*	*06/29/23 07:57*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 01:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 01:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:59*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*06/27/23 14:25*	*06/30/23 01:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**573**		5.02		mg/Kg			06/29/23 19:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-219, 4.1'

Lab Sample ID: 880-30039-9
Matrix: Solid
Date Collected: 06/26/23 12:40
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 08:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 08:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 08:22	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 08:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 08:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/23 15:40	06/29/23 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/28/23 15:40*	*06/29/23 08:22*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/28/23 15:40*	*06/29/23 08:22*	*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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 02:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 02:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*06/27/23 14:25*	*06/30/23 02:21*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*06/27/23 14:25*	*06/30/23 02:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		4.97		mg/Kg			06/29/23 19:56	1

Client Sample ID: C-220, 4.1'

Lab Sample ID: 880-30039-10
Matrix: Solid
Date Collected: 06/26/23 12:45
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 08:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 08:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 08:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 08:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 08:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/28/23 15:40*	*06/29/23 08:48*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/23 15:40*	*06/29/23 08:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-220, 4.1'

Lab Sample ID: 880-30039-10
Matrix: Solid
Date Collected: 06/26/23 12:45
Date Received: 06/27/23 08:54

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			06/29/23 10:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**54.1**		49.9		mg/Kg			06/30/23 11:03	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		06/27/23 14:25	06/30/23 02:44	1
Diesel Range Organics (Over C10-C28)	**54.1**		49.9		mg/Kg		06/27/23 14:25	06/30/23 02:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*06/27/23 14:25*	*06/30/23 02:44*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*06/27/23 14:25*	*06/30/23 02:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		24.9		mg/Kg			06/29/23 20:02	5

Client Sample ID: C-222, 4.1'

Lab Sample ID: 880-30039-11
Matrix: Solid
Date Collected: 06/26/23 12:50
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 09:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 09:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 09:13	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/28/23 15:40	06/29/23 09:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/23 15:40	06/29/23 09:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/28/23 15:40	06/29/23 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/28/23 15:40*	*06/29/23 09:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/28/23 15:40*	*06/29/23 09:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 08:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 08:28	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-30039-1
Project/Site: Plihey Elder SDG: 3089 3090

Client Sample ID: C-222, 4.1' Lab Sample ID: 880-30039-11

Date Collected: 06/26/23 12:50 **Matrix: Solid**
Date Received: 06/27/23 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*06/27/23 14:25*	*06/30/23 08:28*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*06/27/23 14:25*	*06/30/23 08:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**429**		5.03		mg/Kg			06/29/23 20:07	1

Client Sample ID: C-223, 4.1' Lab Sample ID: 880-30039-12

Date Collected: 06/26/23 12:55 **Matrix: Solid**
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 09:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 09:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 09:39	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		06/28/23 15:40	06/29/23 09:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 09:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/28/23 15:40	06/29/23 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/28/23 15:40*	*06/29/23 09:39*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/28/23 15:40*	*06/29/23 09:39*	*1*

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			06/29/23 10:19	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 08:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 08:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*06/27/23 14:25*	*06/30/23 08:51*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*06/27/23 14:25*	*06/30/23 08:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**619**		4.96		mg/Kg			06/29/23 20:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-224, 4.1'

Date Collected: 06/26/23 13:00
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-13
Matrix: Solid

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		06/28/23 15:40	06/29/23 10:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 10:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 10:05	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		06/28/23 15:40	06/29/23 10:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/28/23 15:40	06/29/23 10:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/28/23 15:40	06/29/23 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:05*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:05*	*1*

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			06/29/23 13:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.2**		50.0		mg/Kg			06/30/23 11:03	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		06/27/23 14:25	06/30/23 09:14	1
Diesel Range Organics (Over C10-C28)	**56.2**		50.0		mg/Kg		06/27/23 14:25	06/30/23 09:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/30/23 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:14*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2180**		24.8		mg/Kg			06/29/23 20:31	5

Client Sample ID: C-225, 4.1'

Date Collected: 06/26/23 13:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-14
Matrix: Solid

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		06/28/23 15:40	06/29/23 10:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 10:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:31*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-225, 4.1'

Date Collected: 06/26/23 13:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-14
Matrix: Solid

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			06/29/23 13:05	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 09:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 09:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/23 14:25	06/30/23 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:35*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		5.04		mg/Kg			06/29/23 20:48	1

Client Sample ID: C-226, 4.1'

Date Collected: 06/26/23 13:10
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-15
Matrix: Solid

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		06/28/23 15:40	06/29/23 10:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 10:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 15:40	06/29/23 10:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 15:40	06/29/23 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:56*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/28/23 15:40*	*06/29/23 10:56*	*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			06/29/23 13:05	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			06/30/23 11:03	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		06/27/23 14:25	06/30/23 09:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 09:58	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-226, 4.1'

Lab Sample ID: 880-30039-15
Matrix: Solid
Date Collected: 06/26/23 13:10
Date Received: 06/27/23 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/23 14:25	06/30/23 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:58*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*06/27/23 14:25*	*06/30/23 09:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**524**		5.01		mg/Kg			06/29/23 20:54	1

Client Sample ID: C-227, 0-4.1'

Lab Sample ID: 880-30039-16
Matrix: Solid
Date Collected: 06/26/23 13:15
Date Received: 06/27/23 08:54

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		06/28/23 15:40	06/29/23 11:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 11:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 11:22	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 11:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 11:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/28/23 15:40*	*06/29/23 11:22*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/28/23 15:40*	*06/29/23 11:22*	*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			06/29/23 13:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**424**		49.9		mg/Kg			06/30/23 11:03	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		06/27/23 14:25	06/30/23 10:20	1
Diesel Range Organics (Over C10-C28)	**350**		49.9		mg/Kg		06/27/23 14:25	06/30/23 10:20	1
Oll Range Organics (Over C28-C36)	**74.2**		49.9		mg/Kg		06/27/23 14:25	06/30/23 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*06/27/23 14:25*	*06/30/23 10:20*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*06/27/23 14:25*	*06/30/23 10:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7120**		50.0		mg/Kg			06/29/23 21:00	10

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30039-1	C-103, 4.1'	118	93
880-30039-2	C-212, 4.1'	108	89
880-30039-3	C-213, 4.1'	124	103
880-30039-4	C-214, 4.1'	127	97
880-30039-5	C-215, 4.1'	120	90
880-30039-6	C-216, 4.1'	118	97
880-30039-7	C-217, 4.1'	110	88
880-30039-8	C-218, 4.1'	113	85
880-30039-9	C-219, 4.1'	123	92
880-30039-10	C-220, 4.1'	124	95
880-30039-11	C-222, 4.1'	122	94
880-30039-12	C-223, 4.1'	118	88
880-30039-13	C-224, 4.1'	128	94
880-30039-14	C-225, 4.1'	120	95
880-30039-15	C-226, 4.1'	114	92
880-30039-16	C-227, 0-4.1'	115	88
LCS 880-56512/1-A	Lab Control Sample	107	95
LCSD 880-56512/2-A	Lab Control Sample Dup	115	107
MB 880-56454/5-A	Method Blank	61 S1-	80
MB 880-56512/5-A	Method Blank	61 S1-	83

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)
880-30039-1	C-103, 4.1'	92	98
880-30039-1 MS	C-103, 4.1'	101	98
880-30039-1 MSD	C-103, 4.1'	92	89
880-30039-2	C-212, 4.1'	101	102
880-30039-3	C-213, 4.1'	92	93
880-30039-4	C-214, 4.1'	97	106
880-30039-5	C-215, 4.1'	96	101
880-30039-6	C-216, 4.1'	89	89
880-30039-7	C-217, 4.1'	101	98
880-30039-8	C-218, 4.1'	99	98
880-30039-9	C-219, 4.1'	100	105
880-30039-10	C-220, 4.1'	93	92
880-30039-11	C-222, 4.1'	90	93
880-30039-12	C-223, 4.1'	94	96
880-30039-13	C-224, 4.1'	83	76
880-30039-14	C-225, 4.1'	86	91
880-30039-15	C-226, 4.1'	99	99
880-30039-16	C-227, 0-4.1'	93	94
LCS 880-56422/2-A	Lab Control Sample	81	90

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-30039-1
Project/Site: Plihey Elder SDG: 3089 3090

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)								
LCSD 880-56422/3-A	Lab Control Sample Dup	93	105								
MB 880-56422/1-A	Method Blank	95	109								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56454/5-A
Matrix: Solid
Analysis Batch: 56448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56454

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:37	06/28/23 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:37	06/28/23 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:37	06/28/23 11:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 08:37	06/28/23 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:37	06/28/23 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 08:37	06/28/23 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*06/28/23 08:37*	*06/28/23 11:45*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/28/23 08:37*	*06/28/23 11:45*	*1*

Lab Sample ID: MB 880-56512/5-A
Matrix: Solid
Analysis Batch: 56448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56512

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 01:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 01:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 01:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 01:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 15:40	06/29/23 01:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 15:40	06/29/23 01:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*06/28/23 15:40*	*06/29/23 01:31*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*06/28/23 15:40*	*06/29/23 01:31*	*1*

Lab Sample ID: LCS 880-56512/1-A
Matrix: Solid
Analysis Batch: 56448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56512

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1264		mg/Kg		126	70 - 130		
Toluene			0.100	0.1146		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130		
m,p-Xylenes			0.200	0.2224		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1155		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-56512/2-A
Matrix: Solid
Analysis Batch: 56448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56512

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1244		mg/Kg		124	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

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

Lab Sample ID: LCSD 880-56512/2-A
Matrix: Solid
Analysis Batch: 56448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56512

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1186		mg/Kg		119	70 - 130	3	35
Ethylbenzene			0.100	0.1138		mg/Kg		114	70 - 130	0	35
m,p-Xylenes			0.200	0.2217		mg/Kg		111	70 - 130	0	35
o-Xylene			0.100	0.1141		mg/Kg		114	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-56422/1-A
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56422

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		06/27/23 14:25	06/29/23 21:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/29/23 21:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/23 14:25	06/29/23 21:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*06/27/23 14:25*	*06/29/23 21:29*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*06/27/23 14:25*	*06/29/23 21:29*	*1*

Lab Sample ID: LCS 880-56422/2-A
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	924.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*81*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-56422/3-A
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56422

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.8		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1115		mg/Kg		112	70 - 130	2	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

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

Lab Sample ID: LCSD 880-56422/3-A
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56422

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: 880-30039-1 MS
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: C-103, 4.1'
Prep Type: Total/NA
Prep Batch: 56422

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	997	979.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1000		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Lab Sample ID: 880-30039-1 MSD
Matrix: Solid
Analysis Batch: 56537

Client Sample ID: C-103, 4.1'
Prep Type: Total/NA
Prep Batch: 56422

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	996	930.1		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	903.1		mg/Kg		91	70 - 130	10	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56420/1-A
Matrix: Solid
Analysis Batch: 56643

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			06/29/23 18:28	1

Lab Sample ID: LCS 880-56420/2-A
Matrix: Solid
Analysis Batch: 56643

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	243.5		mg/Kg		97	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-56420/3-A
Matrix: Solid
Analysis Batch: 56643

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	243.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30039-1 MS
Matrix: Solid
Analysis Batch: 56643

Client Sample ID: C-103, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	239		249	476.2		mg/Kg		95	90 - 110

Lab Sample ID: 880-30039-1 MSD
Matrix: Solid
Analysis Batch: 56643

Client Sample ID: C-103, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	239		249	473.9		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-30039-11 MS
Matrix: Solid
Analysis Batch: 56643

Client Sample ID: C-222, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	429		252	666.3		mg/Kg		94	90 - 110

Lab Sample ID: 880-30039-11 MSD
Matrix: Solid
Analysis Batch: 56643

Client Sample ID: C-222, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	429		252	665.3		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

GC VOA

Analysis Batch: 56448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	8021B	56512
880-30039-2	C-212, 4.1'	Total/NA	Solid	8021B	56512
880-30039-3	C-213, 4.1'	Total/NA	Solid	8021B	56512
880-30039-4	C-214, 4.1'	Total/NA	Solid	8021B	56512
880-30039-5	C-215, 4.1'	Total/NA	Solid	8021B	56512
880-30039-6	C-216, 4.1'	Total/NA	Solid	8021B	56512
880-30039-7	C-217, 4.1'	Total/NA	Solid	8021B	56512
880-30039-8	C-218, 4.1'	Total/NA	Solid	8021B	56512
880-30039-9	C-219, 4.1'	Total/NA	Solid	8021B	56512
880-30039-10	C-220, 4.1'	Total/NA	Solid	8021B	56512
880-30039-11	C-222, 4.1'	Total/NA	Solid	8021B	56512
880-30039-12	C-223, 4.1'	Total/NA	Solid	8021B	56512
880-30039-13	C-224, 4.1'	Total/NA	Solid	8021B	56512
880-30039-14	C-225, 4.1'	Total/NA	Solid	8021B	56512
880-30039-15	C-226, 4.1'	Total/NA	Solid	8021B	56512
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	8021B	56512
MB 880-56454/5-A	Method Blank	Total/NA	Solid	8021B	56454
MB 880-56512/5-A	Method Blank	Total/NA	Solid	8021B	56512
LCS 880-56512/1-A	Lab Control Sample	Total/NA	Solid	8021B	56512
LCSD 880-56512/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56512

Prep Batch: 56454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56454/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 56512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	5035	
880-30039-2	C-212, 4.1'	Total/NA	Solid	5035	
880-30039-3	C-213, 4.1'	Total/NA	Solid	5035	
880-30039-4	C-214, 4.1'	Total/NA	Solid	5035	
880-30039-5	C-215, 4.1'	Total/NA	Solid	5035	
880-30039-6	C-216, 4.1'	Total/NA	Solid	5035	
880-30039-7	C-217, 4.1'	Total/NA	Solid	5035	
880-30039-8	C-218, 4.1'	Total/NA	Solid	5035	
880-30039-9	C-219, 4.1'	Total/NA	Solid	5035	
880-30039-10	C-220, 4.1'	Total/NA	Solid	5035	
880-30039-11	C-222, 4.1'	Total/NA	Solid	5035	
880-30039-12	C-223, 4.1'	Total/NA	Solid	5035	
880-30039-13	C-224, 4.1'	Total/NA	Solid	5035	
880-30039-14	C-225, 4.1'	Total/NA	Solid	5035	
880-30039-15	C-226, 4.1'	Total/NA	Solid	5035	
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	5035	
MB 880-56512/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56512/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56512/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 56571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-2	C-212, 4.1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

GC VOA (Continued)

Analysis Batch: 56571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-3	C-213, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-4	C-214, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-5	C-215, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-6	C-216, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-7	C-217, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-8	C-218, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-9	C-219, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-10	C-220, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-11	C-222, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-12	C-223, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-13	C-224, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-14	C-225, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-15	C-226, 4.1'	Total/NA	Solid	Total BTEX	
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-2	C-212, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-3	C-213, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-4	C-214, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-5	C-215, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-6	C-216, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-7	C-217, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-8	C-218, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-9	C-219, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-10	C-220, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-11	C-222, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-12	C-223, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-13	C-224, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-14	C-225, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-15	C-226, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-56422/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56422/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56422/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30039-1 MS	C-103, 4.1'	Total/NA	Solid	8015NM Prep	
880-30039-1 MSD	C-103, 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-2	C-212, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-3	C-213, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-4	C-214, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-5	C-215, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-6	C-216, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-7	C-217, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-8	C-218, 4.1'	Total/NA	Solid	8015B NM	56422

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

GC Semi VOA (Continued)

Analysis Batch: 56537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-9	C-219, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-10	C-220, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-11	C-222, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-12	C-223, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-13	C-224, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-14	C-225, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-15	C-226, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	8015B NM	56422
MB 880-56422/1-A	Method Blank	Total/NA	Solid	8015B NM	56422
LCS 880-56422/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56422
LCSD 880-56422/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56422
880-30039-1 MS	C-103, 4.1'	Total/NA	Solid	8015B NM	56422
880-30039-1 MSD	C-103, 4.1'	Total/NA	Solid	8015B NM	56422

Analysis Batch: 56678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Total/NA	Solid	8015 NM	
880-30039-2	C-212, 4.1'	Total/NA	Solid	8015 NM	
880-30039-3	C-213, 4.1'	Total/NA	Solid	8015 NM	
880-30039-4	C-214, 4.1'	Total/NA	Solid	8015 NM	
880-30039-5	C-215, 4.1'	Total/NA	Solid	8015 NM	
880-30039-6	C-216, 4.1'	Total/NA	Solid	8015 NM	
880-30039-7	C-217, 4.1'	Total/NA	Solid	8015 NM	
880-30039-8	C-218, 4.1'	Total/NA	Solid	8015 NM	
880-30039-9	C-219, 4.1'	Total/NA	Solid	8015 NM	
880-30039-10	C-220, 4.1'	Total/NA	Solid	8015 NM	
880-30039-11	C-222, 4.1'	Total/NA	Solid	8015 NM	
880-30039-12	C-223, 4.1'	Total/NA	Solid	8015 NM	
880-30039-13	C-224, 4.1'	Total/NA	Solid	8015 NM	
880-30039-14	C-225, 4.1'	Total/NA	Solid	8015 NM	
880-30039-15	C-226, 4.1'	Total/NA	Solid	8015 NM	
880-30039-16	C-227, 0-4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Soluble	Solid	DI Leach	
880-30039-2	C-212, 4.1'	Soluble	Solid	DI Leach	
880-30039-3	C-213, 4.1'	Soluble	Solid	DI Leach	
880-30039-4	C-214, 4.1'	Soluble	Solid	DI Leach	
880-30039-5	C-215, 4.1'	Soluble	Solid	DI Leach	
880-30039-6	C-216, 4.1'	Soluble	Solid	DI Leach	
880-30039-7	C-217, 4.1'	Soluble	Solid	DI Leach	
880-30039-8	C-218, 4.1'	Soluble	Solid	DI Leach	
880-30039-9	C-219, 4.1'	Soluble	Solid	DI Leach	
880-30039-10	C-220, 4.1'	Soluble	Solid	DI Leach	
880-30039-11	C-222, 4.1'	Soluble	Solid	DI Leach	
880-30039-12	C-223, 4.1'	Soluble	Solid	DI Leach	
880-30039-13	C-224, 4.1'	Soluble	Solid	DI Leach	
880-30039-14	C-225, 4.1'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

HPLC/IC (Continued)

Leach Batch: 56420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-15	C-226, 4.1'	Soluble	Solid	DI Leach	
880-30039-16	C-227, 0-4.1'	Soluble	Solid	DI Leach	
MB 880-56420/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56420/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56420/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30039-1 MS	C-103, 4.1'	Soluble	Solid	DI Leach	
880-30039-1 MSD	C-103, 4.1'	Soluble	Solid	DI Leach	
880-30039-11 MS	C-222, 4.1'	Soluble	Solid	DI Leach	
880-30039-11 MSD	C-222, 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 56643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30039-1	C-103, 4.1'	Soluble	Solid	300.0	56420
880-30039-2	C-212, 4.1'	Soluble	Solid	300.0	56420
880-30039-3	C-213, 4.1'	Soluble	Solid	300.0	56420
880-30039-4	C-214, 4.1'	Soluble	Solid	300.0	56420
880-30039-5	C-215, 4.1'	Soluble	Solid	300.0	56420
880-30039-6	C-216, 4.1'	Soluble	Solid	300.0	56420
880-30039-7	C-217, 4.1'	Soluble	Solid	300.0	56420
880-30039-8	C-218, 4.1'	Soluble	Solid	300.0	56420
880-30039-9	C-219, 4.1'	Soluble	Solid	300.0	56420
880-30039-10	C-220, 4.1'	Soluble	Solid	300.0	56420
880-30039-11	C-222, 4.1'	Soluble	Solid	300.0	56420
880-30039-12	C-223, 4.1'	Soluble	Solid	300.0	56420
880-30039-13	C-224, 4.1'	Soluble	Solid	300.0	56420
880-30039-14	C-225, 4.1'	Soluble	Solid	300.0	56420
880-30039-15	C-226, 4.1'	Soluble	Solid	300.0	56420
880-30039-16	C-227, 0-4.1'	Soluble	Solid	300.0	56420
MB 880-56420/1-A	Method Blank	Soluble	Solid	300.0	56420
LCS 880-56420/2-A	Lab Control Sample	Soluble	Solid	300.0	56420
LCSD 880-56420/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56420
880-30039-1 MS	C-103, 4.1'	Soluble	Solid	300.0	56420
880-30039-1 MSD	C-103, 4.1'	Soluble	Solid	300.0	56420
880-30039-11 MS	C-222, 4.1'	Soluble	Solid	300.0	56420
880-30039-11 MSD	C-222, 4.1'	Soluble	Solid	300.0	56420

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-103, 4.1'
Date Collected: 06/26/23 12:00
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-1
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 03:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/29/23 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 18:46	CH	EET MID

Client Sample ID: C-212, 4.1'
Date Collected: 06/26/23 12:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-2
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 04:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/29/23 23:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 19:03	CH	EET MID

Client Sample ID: C-213, 4.1'
Date Collected: 06/26/23 12:10
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-3
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 04:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 00:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		5			56643	06/29/23 19:09	CH	EET MID

Client Sample ID: C-214, 4.1'
Date Collected: 06/26/23 12:15
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-4
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 04:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-214, 4.1'

Date Collected: 06/26/23 12:15
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-4
Matrix: Solid

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			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 19:15	CH	EET MID

Client Sample ID: C-215, 4.1'

Date Collected: 06/26/23 12:20
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 05:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 19:21	CH	EET MID

Client Sample ID: C-216, 4.1'

Date Collected: 06/26/23 12:25
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-6
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 05:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		5			56643	06/29/23 19:38	CH	EET MID

Client Sample ID: C-217, 4.1'

Date Collected: 06/26/23 12:30
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-7
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 07:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 01:36	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-217, 4.1'
Date Collected: 06/26/23 12:30
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-7
Matrix: Solid

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 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		5			56643	06/29/23 19:44	CH	EET MID

Client Sample ID: C-218, 4.1'
Date Collected: 06/26/23 12:35
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-8
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 07:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 19:50	CH	EET MID

Client Sample ID: C-219, 4.1'
Date Collected: 06/26/23 12:40
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-9
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 08:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 02:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 19:56	CH	EET MID

Client Sample ID: C-220, 4.1'
Date Collected: 06/26/23 12:45
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-10
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 08:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 02:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		5			56643	06/29/23 20:02	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-222, 4.1'

Date Collected: 06/26/23 12:50
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 09:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 08:28	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 20:07	CH	EET MID

Client Sample ID: C-223, 4.1'

Date Collected: 06/26/23 12:55
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-12
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 09:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 08:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 20:25	CH	EET MID

Client Sample ID: C-224, 4.1'

Date Collected: 06/26/23 13:00
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-13
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 10:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 09:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		5			56643	06/29/23 20:31	CH	EET MID

Client Sample ID: C-225, 4.1'

Date Collected: 06/26/23 13:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-14
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 10:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 13:05	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Client Sample ID: C-225, 4.1'

Date Collected: 06/26/23 13:05
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-14
Matrix: Solid

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			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 09:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 20:48	CH	EET MID

Client Sample ID: C-226, 4.1'

Date Collected: 06/26/23 13:10
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-15
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 10:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 09:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		1			56643	06/29/23 20:54	CH	EET MID

Client Sample ID: C-227, 0-4.1'

Date Collected: 06/26/23 13:15
Date Received: 06/27/23 08:54

Lab Sample ID: 880-30039-16
Matrix: Solid

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	56512	06/28/23 15:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56448	06/29/23 11:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56571	06/29/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			56678	06/30/23 11:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56422	06/27/23 14:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56537	06/30/23 10:20	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56420	06/27/23 12:44	SMC	EET MID
Soluble	Analysis	300.0		10			56643	06/29/23 21:00	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-30039-1
Project/Site: Plihey Elder SDG: 3089 3090

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. Job ID: 880-30039-1
Project/Site: Plihey Elder SDG: 3089 3090

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: Plihey Elder

Job ID: 880-30039-1
SDG: 3089 3090

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30039-1	C-103, 4.1'	Solid	06/26/23 12:00	06/27/23 08:54
880-30039-2	C-212, 4.1'	Solid	06/26/23 12:05	06/27/23 08:54
880-30039-3	C-213, 4.1'	Solid	06/26/23 12:10	06/27/23 08:54
880-30039-4	C-214, 4.1'	Solid	06/26/23 12:15	06/27/23 08:54
880-30039-5	C-215, 4.1'	Solid	06/26/23 12:20	06/27/23 08:54
880-30039-6	C-216, 4.1'	Solid	06/26/23 12:25	06/27/23 08:54
880-30039-7	C-217, 4.1'	Solid	06/26/23 12:30	06/27/23 08:54
880-30039-8	C-218, 4.1'	Solid	06/26/23 12:35	06/27/23 08:54
880-30039-9	C-219, 4.1'	Solid	06/26/23 12:40	06/27/23 08:54
880-30039-10	C-220, 4.1'	Solid	06/26/23 12:45	06/27/23 08:54
880-30039-11	C-222, 4.1'	Solid	06/26/23 12:50	06/27/23 08:54
880-30039-12	C-223, 4.1'	Solid	06/26/23 12:55	06/27/23 08:54
880-30039-13	C-224, 4.1'	Solid	06/26/23 13:00	06/27/23 08:54
880-30039-14	C-225, 4.1'	Solid	06/26/23 13:05	06/27/23 08:54
880-30039-15	C-226, 4.1'	Solid	06/26/23 13:10	06/27/23 08:54
880-30039-16	C-227, 0-4.1'	Solid	06/26/23 13:15	06/27/23 08:54

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30039

No. 3089

CHAIN-OF-CUSTODY

6/30/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 6/26/23 PAGE 1 OF 2

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Pliney elder

LAI PROJECT # 22-0107-02 COLLECTOR KG + HW

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State MST/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-103, 4.1'		6/26/23	1200	S	1				X		X	202
C-212, 4.1'			1205									
C-213, 4.1'			1210									
C-214, 4.1'			1215									
C-215, 4.1'			1220									
C-216, 4.1'			1225									
C-217, 4.1'			1230									
C-218, 4.1'			1235									
C-219, 4.1'			1240									
C-220, 4.1'			1245									
C-222, 4.1'			1250									
C-223, 4.1'			1255									
C-224, 4.1'			1300									
C-225, 4.1'			1305									
C-226, 4.1'			1310									
TOTAL												

880-30039 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 6/27/23 0854	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY Xenco		

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

LABORATORY USE ONLY:
RECEIVING TEMP -3.2/-3.5 THERM# IR8 -3
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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30039

No. 3090

CHAIN-OF-CUSTODY

6/30/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 6-26-23 PAGE 2 OF 2

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Pliney Elder

LAI PROJECT # 22-0107-02 COLLECTOR: KG PHW

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-227.0-4.5'		6-26-23	1315	S	1				X		X	

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

X X X X X

Loc: 880
30039

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME 6/27/23 0854	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

Page 37 of 38

Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-30039-1
SDG Number: 3089 3090

Login Number: 30039
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/31/2023 3:19:40 PM

JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-30667-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/30/2024 4:19:02 PM

my EOL

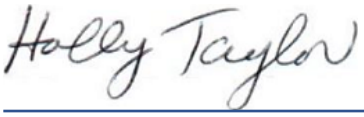
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
7/31/2023 3:19:40 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Laboratory Job ID: 880-30667-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-30667-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Job ID: 880-30667-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30667-1

Receipt
The samples were received on 7/13/2023 9:48 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 time was 4.2°C

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

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Client Sample ID: C-227a

Date Collected: 07/12/23 08:10
Date Received: 07/13/23 09:48

Lab Sample ID: 880-30667-1
Matrix: Solid

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		07/14/23 09:48	07/14/23 19:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/23 09:48	07/14/23 19:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/23 09:48	07/14/23 19:14	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		07/14/23 09:48	07/14/23 19:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/23 09:48	07/14/23 19:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/23 09:48	07/14/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/14/23 09:48*	*07/14/23 19:14*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*07/14/23 09:48*	*07/14/23 19:14*	*1*

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			07/17/23 14:24	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			07/31/23 15:43	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		07/24/23 11:52	07/28/23 11:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/24/23 11:52	07/28/23 11:59	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/24/23 11:52	07/28/23 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*07/24/23 11:52*	*07/28/23 11:59*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*07/24/23 11:52*	*07/28/23 11:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		5.04		mg/Kg			07/17/23 15:58	1

Client Sample ID: C-227b

Date Collected: 07/12/23 08:12
Date Received: 07/13/23 09:48

Lab Sample ID: 880-30667-2
Matrix: Solid

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		07/14/23 09:48	07/14/23 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 19:34	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		07/14/23 09:48	07/14/23 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 19:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/23 09:48	07/14/23 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/14/23 09:48*	*07/14/23 19:34*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/14/23 09:48*	*07/14/23 19:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Client Sample ID: C-227b

Date Collected: 07/12/23 08:12
Date Received: 07/13/23 09:48

Lab Sample ID: 880-30667-2

Matrix: Solid

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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			07/31/23 15:43	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	<50.4	U	50.4		mg/Kg		07/24/23 11:52	07/28/23 12:21	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/24/23 11:52	07/28/23 12:21	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/24/23 11:52	07/28/23 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*07/24/23 11:52*	*07/28/23 12:21*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*07/24/23 11:52*	*07/28/23 12:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		5.00		mg/Kg			07/17/23 16:04	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-30667-1	C-227a	93	75										
880-30667-2	C-227b	93	81										
LCS 880-57673/1-A	Lab Control Sample	111	104										
LCSD 880-57673/2-A	Lab Control Sample Dup	111	105										
MB 880-57673/5-A	Method Blank	75	87										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-30667-1	C-227a	105	93										
880-30667-2	C-227b	120	104										
LCS 880-58354/2-A	Lab Control Sample	106	100										
LCSD 880-58354/3-A	Lab Control Sample Dup	97	90										
MB 880-58354/1-A	Method Blank	161 S1+	150 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57673/5-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57673

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 12:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		07/14/23 09:48	07/14/23 12:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/23 09:48	07/14/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*07/14/23 09:48*	*07/14/23 12:21*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/23 09:48*	*07/14/23 12:21*	*1*

Lab Sample ID: LCS 880-57673/1-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57673

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1143		mg/Kg		114	70 - 130		
Toluene			0.100	0.09925		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1123		mg/Kg		112	70 - 130		
m,p-Xylenes			0.200	0.2313		mg/Kg		116	70 - 130		
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-57673/2-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1144		mg/Kg		114	70 - 130	0	35
Toluene			0.100	0.09657		mg/Kg		97	70 - 130	3	35
Ethylbenzene			0.100	0.1094		mg/Kg		109	70 - 130	3	35
m,p-Xylenes			0.200	0.2190		mg/Kg		110	70 - 130	5	35
o-Xylene			0.100	0.1063		mg/Kg		106	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-58354/1-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58354

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		07/24/23 11:52	07/28/23 08:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/24/23 11:52	07/28/23 08:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/23 11:52	07/28/23 08:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*161*	*S1+*	*70 - 130*	*07/24/23 11:52*	*07/28/23 08:15*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*07/24/23 11:52*	*07/28/23 08:15*	*1*

Lab Sample ID: LCS 880-58354/2-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58354

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	907.1		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	917.8		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-58354/3-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.0		mg/Kg		87	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	889.5		mg/Kg		89	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57711/1-A
Matrix: Solid
Analysis Batch: 57903

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			07/17/23 14:26	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57711/2-A
Matrix: Solid
Analysis Batch: 57903

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-57711/3-A
Matrix: Solid
Analysis Batch: 57903

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	246.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 57653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	8021B	57673
880-30667-2	C-227b	Total/NA	Solid	8021B	57673
MB 880-57673/5-A	Method Blank	Total/NA	Solid	8021B	57673
LCS 880-57673/1-A	Lab Control Sample	Total/NA	Solid	8021B	57673
LCSD 880-57673/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57673

Prep Batch: 57673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	5035	
880-30667-2	C-227b	Total/NA	Solid	5035	
MB 880-57673/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57673/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57673/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 57855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	Total BTEX	
880-30667-2	C-227b	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	8015NM Prep	
880-30667-2	C-227b	Total/NA	Solid	8015NM Prep	
MB 880-58354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	8015B NM	58354
880-30667-2	C-227b	Total/NA	Solid	8015B NM	58354
MB 880-58354/1-A	Method Blank	Total/NA	Solid	8015B NM	58354
LCS 880-58354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58354
LCSD 880-58354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58354

Analysis Batch: 58906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Total/NA	Solid	8015 NM	
880-30667-2	C-227b	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Soluble	Solid	DI Leach	
880-30667-2	C-227b	Soluble	Solid	DI Leach	
MB 880-57711/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57711/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57711/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

HPLC/IC

Analysis Batch: 57903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30667-1	C-227a	Soluble	Solid	300.0	57711
880-30667-2	C-227b	Soluble	Solid	300.0	57711
MB 880-57711/1-A	Method Blank	Soluble	Solid	300.0	57711
LCS 880-57711/2-A	Lab Control Sample	Soluble	Solid	300.0	57711
LCSD 880-57711/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57711

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Client Sample ID: C-227a

Date Collected: 07/12/23 08:10
Date Received: 07/13/23 09:48

Lab Sample ID: 880-30667-1

Matrix: Solid

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	57673	07/14/23 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/14/23 19:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57855	07/17/23 14:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58906	07/31/23 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58354	07/24/23 11:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 11:59	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57711	07/14/23 15:08	KS	EET MID
Soluble	Analysis	300.0		1			57903	07/17/23 15:58	CH	EET MID

Client Sample ID: C-227b

Date Collected: 07/12/23 08:12
Date Received: 07/13/23 09:48

Lab Sample ID: 880-30667-2

Matrix: Solid

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	57673	07/14/23 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/14/23 19:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57855	07/17/23 14:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58906	07/31/23 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58354	07/24/23 11:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 12:21	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57711	07/14/23 15:08	KS	EET MID
Soluble	Analysis	300.0		1			57903	07/17/23 16:04	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-30667-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-30667-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-30667-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30667-1	C-227a	Solid	07/12/23 08:10	07/13/23 09:48
880-30667-2	C-227b	Solid	07/12/23 08:12	07/13/23 09:48

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30667 No. 2505

CHAIN-OF-CUSTODY

7/31/2023

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 7/13/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: BSG

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-227a		5/12/23	0810	S	1				X		X		X	X	X												X		262
C-227b		5/12/23	0812	S	1				X		X		X	X	X												X		
"																													
TOTAL	2																												

RELINQUISHED BY (Signature) Daniel Gomez DATE/TIME 7/13/23 948 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.5/4.2 THERM# DR8-336
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

880-30667 Chain of Custody

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-30667-1
SDG Number: 22-0107-02

Login Number: 30667
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-31051-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/30/2024 4:19:02 PM

my EOL

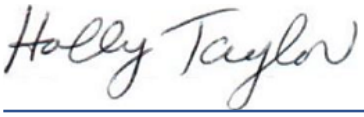
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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8/4/2023 6:09:31 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Laboratory Job ID: 880-31051-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31051-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Job ID: 880-31051-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31051-1

Receipt
The samples were received on 7/21/2023 9:47 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 time was 2.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-296 3' (880-31051-1), C-297 3' (880-31051-2), C-306 3' (880-31051-3), C-307 3' (880-31051-4) and C-308 3' (880-31051-5).

GC VOA
Method 8021B: The CCV was biased low for ethylbenzene. There was an acceptable bracketing CCV within 12 hours; therefore, the data was qualified and reported.(CCV 880-58691/64)

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59080 and analytical batch 880-59289 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59289/20) and (CCV 880-59289/5). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Client Sample ID: C-296 3'

Lab Sample ID: 880-31051-1
Matrix: Solid
Date Collected: 07/20/23 10:25
Date Received: 07/21/23 09:47

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		07/29/23 15:39	07/29/23 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/23 15:39	07/29/23 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/23 15:39	07/29/23 23:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		07/29/23 15:39	07/29/23 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/23 15:39	07/29/23 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/23 15:39	07/29/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*07/29/23 15:39*	*07/29/23 23:27*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/29/23 15:39*	*07/29/23 23:27*	*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			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/04/23 18:48	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	<50.3	U	50.3		mg/Kg		08/02/23 08:57	08/04/23 13:10	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/02/23 08:57	08/04/23 13:10	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/02/23 08:57	08/04/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*08/02/23 08:57*	*08/04/23 13:10*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*08/02/23 08:57*	*08/04/23 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6620**		50.0		mg/Kg			07/26/23 04:25	10

Client Sample ID: C-297 3'

Lab Sample ID: 880-31051-2
Matrix: Solid
Date Collected: 07/20/23 10:30
Date Received: 07/21/23 09:47

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		07/29/23 15:39	07/29/23 23:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/29/23 23:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/29/23 23:47	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		07/29/23 15:39	07/29/23 23:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/29/23 23:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/23 15:39	07/29/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/29/23 15:39*	*07/29/23 23:47*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/29/23 15:39*	*07/29/23 23:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Client Sample ID: C-297 3'

Date Collected: 07/20/23 10:30
Date Received: 07/21/23 09:47

Lab Sample ID: 880-31051-2

Matrix: Solid

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			07/31/23 10:36	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			08/04/23 18:48	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		08/02/23 08:57	08/04/23 14:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/23 08:57	08/04/23 14:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/23 08:57	08/04/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*08/02/23 08:57*	*08/04/23 14:16*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*08/02/23 08:57*	*08/04/23 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		25.1		mg/Kg			07/26/23 04:31	5

Client Sample ID: C-306 3'

Date Collected: 07/20/23 10:37
Date Received: 07/21/23 09:47

Lab Sample ID: 880-31051-3

Matrix: Solid

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		07/29/23 15:39	07/30/23 00:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/29/23 15:39	07/30/23 00:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/29/23 15:39	07/30/23 00:07	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		07/29/23 15:39	07/30/23 00:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/29/23 15:39	07/30/23 00:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/29/23 15:39	07/30/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:07*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:07*	*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			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/04/23 18:48	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	<49.6	U	49.6		mg/Kg		08/02/23 08:57	08/04/23 14:39	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/02/23 08:57	08/04/23 14:39	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31051-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-306 3'
Lab Sample ID: 880-31051-3
Date Collected: 07/20/23 10:37 **Matrix: Solid**
Date Received: 07/21/23 09:47

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)	<49.6	U	49.6		mg/Kg		08/02/23 08:57	08/04/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*08/02/23 08:57*	*08/04/23 14:39*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*08/02/23 08:57*	*08/04/23 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2140**		25.0		mg/Kg			07/26/23 04:37	5

Client Sample ID: C-307 3'
Lab Sample ID: 880-31051-4
Date Collected: 07/20/23 10:46 **Matrix: Solid**
Date Received: 07/21/23 09:47

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		07/29/23 15:39	07/30/23 00:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/29/23 15:39	07/30/23 00:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/29/23 15:39	07/30/23 00:28	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		07/29/23 15:39	07/30/23 00:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/29/23 15:39	07/30/23 00:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/29/23 15:39	07/30/23 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:28*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:28*	*1*

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			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/04/23 18:48	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	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:01	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*08/02/23 08:57*	*08/04/23 15:01*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*08/02/23 08:57*	*08/04/23 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		25.0		mg/Kg			07/26/23 04:43	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Client Sample ID: C-308 3'

Date Collected: 07/20/23 11:06
Date Received: 07/21/23 09:47

Lab Sample ID: 880-31051-5

Matrix: Solid

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		07/29/23 15:39	07/30/23 00:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/30/23 00:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/30/23 00:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		07/29/23 15:39	07/30/23 00:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/23 15:39	07/30/23 00:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/23 15:39	07/30/23 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/29/23 15:39*	*07/30/23 00:48*	*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			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/04/23 18:48	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	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:23	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/02/23 08:57	08/04/23 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*08/02/23 08:57*	*08/04/23 15:23*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*08/02/23 08:57*	*08/04/23 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1360**		24.9		mg/Kg			07/26/23 04:49	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-31051-1	C-296 3'	71	103
880-31051-1 MS	C-296 3'	92	100
880-31051-1 MSD	C-296 3'	93	99
880-31051-2	C-297 3'	84	105
880-31051-3	C-306 3'	84	111
880-31051-4	C-307 3'	89	107
880-31051-5	C-308 3'	88	111
LCS 880-58785/1-A	Lab Control Sample	86	91
LCSD 880-58785/2-A	Lab Control Sample Dup	86	95
MB 880-58658/5-A	Method Blank	97	113
MB 880-58785/5-A	Method Blank	95	123

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)
880-31051-1	C-296 3'	107	91
880-31051-1 MS	C-296 3'	113	85
880-31051-1 MSD	C-296 3'	109	89
880-31051-2	C-297 3'	110	95
880-31051-3	C-306 3'	108	95
880-31051-4	C-307 3'	128	110
880-31051-5	C-308 3'	115	100
LCS 880-59080/2-A	Lab Control Sample	94	100
LCSD 880-59080/3-A	Lab Control Sample Dup	91	107
MB 880-59080/1-A	Method Blank	133 S1+	125

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58658/5-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58658

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/27/23 14:04	07/29/23 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/27/23 14:04	07/29/23 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/27/23 14:04	07/29/23 11:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		07/27/23 14:04	07/29/23 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/27/23 14:04	07/29/23 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/27/23 14:04	07/29/23 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/27/23 14:04*	*07/29/23 11:20*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/27/23 14:04*	*07/29/23 11:20*	*1*

Lab Sample ID: MB 880-58785/5-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58785

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 15:39	07/29/23 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 15:39	07/29/23 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/23 15:39	07/29/23 22:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		07/29/23 15:39	07/29/23 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 15:39	07/29/23 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/23 15:39	07/29/23 22:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/29/23 15:39*	*07/29/23 22:58*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*07/29/23 15:39*	*07/29/23 22:58*	*1*

Lab Sample ID: LCS 880-58785/1-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58785

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08770		mg/Kg		88	70 - 130		
Toluene			0.100	0.09536		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.08439		mg/Kg		84	70 - 130		
m,p-Xylenes			0.200	0.1840		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.08864		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-58785/2-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58785

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	17	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-58785/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58691 — **Prep Batch: 58785**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09695		mg/Kg		97	70 - 130	2	35
Ethylbenzene			0.100	0.08863		mg/Kg		89	70 - 130	5	35
m,p-Xylenes			0.200	0.1957		mg/Kg		98	70 - 130	6	35
o-Xylene			0.100	0.09411		mg/Kg		94	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-31051-1 MS — **Client Sample ID: C-296 3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58691 — **Prep Batch: 58785**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09361		mg/Kg		94	70 - 130
Toluene	<0.00199	U	0.0998	0.08473		mg/Kg		85	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.07716		mg/Kg		77	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1758		mg/Kg		88	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08585		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-31051-1 MSD — **Client Sample ID: C-296 3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58691 — **Prep Batch: 58785**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09480		mg/Kg		96	70 - 130	1	35
Toluene	<0.00199	U	0.0990	0.08944		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0990	0.08096		mg/Kg		82	70 - 130	5	35
m,p-Xylenes	<0.00398	U	0.198	0.1806		mg/Kg		91	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.08674		mg/Kg		87	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-59080/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59289 — **Prep Batch: 59080**

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		08/02/23 08:56	08/04/23 10:36	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-59080/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59289 — **Prep Batch: 59080**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/23 08:56	08/04/23 10:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/23 08:56	08/04/23 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*08/02/23 08:56*	*08/04/23 10:36*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*08/02/23 08:56*	*08/04/23 10:36*	*1*

Lab Sample ID: LCS 880-59080/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59289 — **Prep Batch: 59080**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	981.8		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	980.8		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-59080/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59289 — **Prep Batch: 59080**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	954.1		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	930.5		mg/Kg		93	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-31051-1 MS — **Client Sample ID: C-296 3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59289 — **Prep Batch: 59080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1244		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1086		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*113*		*70 - 130*
o-Terphenyl (Surr)	*85*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

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

Lab Sample ID: 880-31051-1 MSD
Matrix: Solid
Analysis Batch: 59289

Client Sample ID: C-296 3'
Prep Type: Total/NA
Prep Batch: 59080

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	<50.3	U	1010	1244		mg/Kg		120	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1076		mg/Kg		105	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58440/1-A
Matrix: Solid
Analysis Batch: 58489

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			07/26/23 01:44	1

Lab Sample ID: LCS 880-58440/2-A
Matrix: Solid
Analysis Batch: 58489

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	232.2		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-58440/3-A
Matrix: Solid
Analysis Batch: 58489

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	233.1		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

GC VOA

Prep Batch: 58658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58658/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	8021B	58785
880-31051-2	C-297 3'	Total/NA	Solid	8021B	58785
880-31051-3	C-306 3'	Total/NA	Solid	8021B	58785
880-31051-4	C-307 3'	Total/NA	Solid	8021B	58785
880-31051-5	C-308 3'	Total/NA	Solid	8021B	58785
MB 880-58658/5-A	Method Blank	Total/NA	Solid	8021B	58658
MB 880-58785/5-A	Method Blank	Total/NA	Solid	8021B	58785
LCS 880-58785/1-A	Lab Control Sample	Total/NA	Solid	8021B	58785
LCSD 880-58785/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58785
880-31051-1 MS	C-296 3'	Total/NA	Solid	8021B	58785
880-31051-1 MSD	C-296 3'	Total/NA	Solid	8021B	58785

Prep Batch: 58785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	5035	
880-31051-2	C-297 3'	Total/NA	Solid	5035	
880-31051-3	C-306 3'	Total/NA	Solid	5035	
880-31051-4	C-307 3'	Total/NA	Solid	5035	
880-31051-5	C-308 3'	Total/NA	Solid	5035	
MB 880-58785/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58785/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58785/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31051-1 MS	C-296 3'	Total/NA	Solid	5035	
880-31051-1 MSD	C-296 3'	Total/NA	Solid	5035	

Analysis Batch: 58844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	Total BTEX	
880-31051-2	C-297 3'	Total/NA	Solid	Total BTEX	
880-31051-3	C-306 3'	Total/NA	Solid	Total BTEX	
880-31051-4	C-307 3'	Total/NA	Solid	Total BTEX	
880-31051-5	C-308 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	8015NM Prep	
880-31051-2	C-297 3'	Total/NA	Solid	8015NM Prep	
880-31051-3	C-306 3'	Total/NA	Solid	8015NM Prep	
880-31051-4	C-307 3'	Total/NA	Solid	8015NM Prep	
880-31051-5	C-308 3'	Total/NA	Solid	8015NM Prep	
MB 880-59080/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59080/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31051-1 MS	C-296 3'	Total/NA	Solid	8015NM Prep	
880-31051-1 MSD	C-296 3'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

GC Semi VOA

Analysis Batch: 59289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	8015B NM	59080
880-31051-2	C-297 3'	Total/NA	Solid	8015B NM	59080
880-31051-3	C-306 3'	Total/NA	Solid	8015B NM	59080
880-31051-4	C-307 3'	Total/NA	Solid	8015B NM	59080
880-31051-5	C-308 3'	Total/NA	Solid	8015B NM	59080
MB 880-59080/1-A	Method Blank	Total/NA	Solid	8015B NM	59080
LCS 880-59080/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59080
LCSD 880-59080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59080
880-31051-1 MS	C-296 3'	Total/NA	Solid	8015B NM	59080
880-31051-1 MSD	C-296 3'	Total/NA	Solid	8015B NM	59080

Analysis Batch: 59379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Total/NA	Solid	8015 NM	
880-31051-2	C-297 3'	Total/NA	Solid	8015 NM	
880-31051-3	C-306 3'	Total/NA	Solid	8015 NM	
880-31051-4	C-307 3'	Total/NA	Solid	8015 NM	
880-31051-5	C-308 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Soluble	Solid	DI Leach	
880-31051-2	C-297 3'	Soluble	Solid	DI Leach	
880-31051-3	C-306 3'	Soluble	Solid	DI Leach	
880-31051-4	C-307 3'	Soluble	Solid	DI Leach	
880-31051-5	C-308 3'	Soluble	Solid	DI Leach	
MB 880-58440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 58489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31051-1	C-296 3'	Soluble	Solid	300.0	58440
880-31051-2	C-297 3'	Soluble	Solid	300.0	58440
880-31051-3	C-306 3'	Soluble	Solid	300.0	58440
880-31051-4	C-307 3'	Soluble	Solid	300.0	58440
880-31051-5	C-308 3'	Soluble	Solid	300.0	58440
MB 880-58440/1-A	Method Blank	Soluble	Solid	300.0	58440
LCS 880-58440/2-A	Lab Control Sample	Soluble	Solid	300.0	58440
LCSD 880-58440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58440

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-31051-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-296 3' Lab Sample ID: 880-31051-1

Date Collected: 07/20/23 10:25 **Matrix: Solid**
Date Received: 07/21/23 09:47

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	58785	07/29/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/29/23 23:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58844	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59379	08/04/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59080	08/02/23 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59289	08/04/23 13:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58440	07/25/23 09:25	KS	EET MID
Soluble	Analysis	300.0		10			58489	07/26/23 04:25	CH	EET MID

Client Sample ID: C-297 3' Lab Sample ID: 880-31051-2

Date Collected: 07/20/23 10:30 **Matrix: Solid**
Date Received: 07/21/23 09:47

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	58785	07/29/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/29/23 23:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58844	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59379	08/04/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59080	08/02/23 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59289	08/04/23 14:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58440	07/25/23 09:25	KS	EET MID
Soluble	Analysis	300.0		5			58489	07/26/23 04:31	CH	EET MID

Client Sample ID: C-306 3' Lab Sample ID: 880-31051-3

Date Collected: 07/20/23 10:37 **Matrix: Solid**
Date Received: 07/21/23 09:47

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	58785	07/29/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/30/23 00:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58844	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59379	08/04/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59080	08/02/23 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59289	08/04/23 14:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58440	07/25/23 09:25	KS	EET MID
Soluble	Analysis	300.0		5			58489	07/26/23 04:37	CH	EET MID

Client Sample ID: C-307 3' Lab Sample ID: 880-31051-4

Date Collected: 07/20/23 10:46 **Matrix: Solid**
Date Received: 07/21/23 09:47

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	58785	07/29/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/30/23 00:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58844	07/31/23 10:36	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Client Sample ID: C-307 3'

Lab Sample ID: 880-31051-4
Matrix: Solid
Date Collected: 07/20/23 10:46
Date Received: 07/21/23 09:47

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			59379	08/04/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59080	08/02/23 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59289	08/04/23 15:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58440	07/25/23 09:25	KS	EET MID
Soluble	Analysis	300.0		5			58489	07/26/23 04:43	CH	EET MID

Client Sample ID: C-308 3'

Lab Sample ID: 880-31051-5
Matrix: Solid
Date Collected: 07/20/23 11:06
Date Received: 07/21/23 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58785	07/29/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/30/23 00:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58844	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59379	08/04/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	59080	08/02/23 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59289	08/04/23 15:23	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58440	07/25/23 09:25	KS	EET MID
Soluble	Analysis	300.0		5			58489	07/26/23 04:49	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-31051-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-31051-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-31051-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31051-1	C-296 3'	Solid	07/20/23 10:25	07/21/23 09:47
880-31051-2	C-297 3'	Solid	07/20/23 10:30	07/21/23 09:47
880-31051-3	C-306 3'	Solid	07/20/23 10:37	07/21/23 09:47
880-31051-4	C-307 3'	Solid	07/20/23 10:46	07/21/23 09:47
880-31051-5	C-308 3'	Solid	07/20/23 11:06	07/21/23 09:47

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No. 2506

CHAIN-OF-CUSTODY

8/4/2023

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE. 7/21/2023 PAGE 1 OF 1

PO#. _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG/HW

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-296 3		7/20/23	1025	S	1				X		X				X	X	X																								X				
C-297 3			1030																																										
C-306 3'			1037																																										
C-307 3'			1046																																										
C-308 3'			1106																																										

880-31051 Chain of Custody

TOTAL 5

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	7/21/23 947	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.0/2.7 THERM# DRE
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31051-1
SDG Number: 22-0107-02

Login Number: 31051
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/14/2023 8:48:54 PM

JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-31363-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/30/2024 4:19:02 PM

my EOL

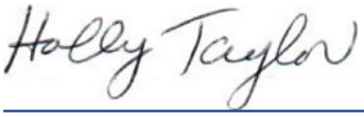
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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8/14/2023 8:48:54 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Laboratory Job ID: 880-31363-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31363-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Job ID: 880-31363-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31363-1

Receipt
The samples were received on 7/28/2023 9:14 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 time was 0.0°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 880-59296 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59296/33).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59296 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59296/64).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59650 and analytical batch 880-60035 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-271 (880-31363-1), C-274 (880-31363-2), C-275 (880-31363-3), C-278 (880-31363-4), C-279 (880-31363-5), (CCV 880-60035/20), (CCV 880-60035/5), (LCS 880-59650/2-A), (LCSD 880-59650/3-A), (880-31363-A-1-D MS) and (880-31363-A-1-E MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58714 and analytical batch 880-58857 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.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Client Sample ID: C-271

Date Collected: 07/27/23 10:50
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-1
Matrix: Solid

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		08/04/23 13:45	08/05/23 02:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:09	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/04/23 13:45	08/05/23 02:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 13:45	08/05/23 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:09*	*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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**292**		50.2		mg/Kg			08/14/23 20:51	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	<50.2	U	50.2		mg/Kg		08/08/23 15:16	08/13/23 11:05	1
Diesel Range Organics (Over C10-C28)	**292**		50.2		mg/Kg		08/08/23 15:16	08/13/23 11:05	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/08/23 15:16	08/13/23 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*180*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 11:05*	*1*
o-Terphenyl (Surr)	*160*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 11:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3310**		49.6		mg/Kg			07/31/23 16:30	10

Client Sample ID: C-274

Date Collected: 07/27/23 11:10
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-2
Matrix: Solid

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		08/04/23 13:45	08/05/23 02:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:29	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/04/23 13:45	08/05/23 02:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:45	08/05/23 02:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 13:45	08/05/23 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:29*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Client Sample ID: C-274

Date Collected: 07/27/23 11:10
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-2

Matrix: Solid

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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**107**		49.8		mg/Kg			08/14/23 20:51	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		08/08/23 15:16	08/13/23 12:13	1
Diesel Range Organics (Over C10-C28)	**107**		49.8		mg/Kg		08/08/23 15:16	08/13/23 12:13	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/23 15:16	08/13/23 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*154*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 12:13*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*08/08/23 15:16*	*08/13/23 12:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5290**		50.4		mg/Kg			07/31/23 16:37	10

Client Sample ID: C-275

Date Collected: 07/27/23 11:20
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-3

Matrix: Solid

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		08/04/23 13:45	08/05/23 02:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:45	08/05/23 02:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:45	08/05/23 02:50	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		08/04/23 13:45	08/05/23 02:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:45	08/05/23 02:50	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/04/23 13:45	08/05/23 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/04/23 13:45*	*08/05/23 02:50*	*1*

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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/14/23 20:51	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	<49.6	U	49.6		mg/Kg		08/08/23 15:16	08/13/23 12:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/08/23 15:16	08/13/23 12:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31363-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-275 Lab Sample ID: 880-31363-3

Date Collected: 07/27/23 11:20 **Matrix: Solid**
Date Received: 07/28/23 09:14

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)	<49.6	U	49.6		mg/Kg		08/08/23 15:16	08/13/23 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*155*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 12:35*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 12:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**	**F1**	25.0		mg/Kg			07/31/23 16:43	5

Client Sample ID: C-278 Lab Sample ID: 880-31363-4

Date Collected: 07/27/23 11:00 **Matrix: Solid**
Date Received: 07/28/23 09:14

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		08/04/23 13:45	08/05/23 04:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/05/23 04:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/05/23 04:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/05/23 04:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/05/23 04:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/05/23 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:12*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:12*	*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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**365**		50.3		mg/Kg			08/14/23 20:51	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	<50.3	U	50.3		mg/Kg		08/08/23 15:16	08/13/23 12:58	1
Diesel Range Organics (Over C10-C28)	**365**		50.3		mg/Kg		08/08/23 15:16	08/13/23 12:58	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/08/23 15:16	08/13/23 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*151*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 12:58*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*08/08/23 15:16*	*08/13/23 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5130**		49.5		mg/Kg			07/31/23 17:01	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Client Sample ID: C-279

Date Collected: 07/27/23 11:05
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-5

Matrix: Solid

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		08/04/23 13:45	08/05/23 04:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/04/23 13:45	08/05/23 04:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 13:45	08/05/23 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:33*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:33*	*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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.4**		50.4		mg/Kg			08/14/23 20:51	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	<50.4	U	50.4		mg/Kg		08/08/23 15:16	08/13/23 13:20	1
Diesel Range Organics (Over C10-C28)	**67.4**		50.4		mg/Kg		08/08/23 15:16	08/13/23 13:20	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/08/23 15:16	08/13/23 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 13:20*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*08/08/23 15:16*	*08/13/23 13:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		50.1		mg/Kg			07/31/23 17:07	10

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31363-1	C-271	113	109										
880-31363-2	C-274	105	107										
880-31363-3	C-275	101	108										
880-31363-4	C-278	99	98										
880-31363-5	C-279	104	111										
LCS 880-59346/1-A	Lab Control Sample	94	100										
LCSD 880-59346/2-A	Lab Control Sample Dup	93	103										
MB 880-59297/5-A	Method Blank	82	91										
MB 880-59346/5-A	Method Blank	84	88										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31363-1	C-271	180 S1+	160 S1+										
880-31363-1 MS	C-271	162 S1+	122										
880-31363-1 MSD	C-271	158 S1+	121										
880-31363-2	C-274	154 S1+	130										
880-31363-3	C-275	155 S1+	135 S1+										
880-31363-4	C-278	151 S1+	130										
880-31363-5	C-279	146 S1+	132 S1+										
LCS 880-59650/2-A	Lab Control Sample	160 S1+	146 S1+										
LCSD 880-59650/3-A	Lab Control Sample Dup	163 S1+	144 S1+										
MB 880-59650/1-A	Method Blank	163 S1+	150 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59297/5-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59297

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/04/23 08:20*	*08/04/23 12:38*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/04/23 08:20*	*08/04/23 12:38*	*1*

Lab Sample ID: MB 880-59346/5-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59346

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/04/23 13:45*	*08/04/23 23:23*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/04/23 13:45*	*08/04/23 23:23*	*1*

Lab Sample ID: LCS 880-59346/1-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09760		mg/Kg		98	70 - 130		
Toluene			0.100	0.1041		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09165		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1760		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08932		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-59346/2-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09701		mg/Kg		97	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31363-1
Project/Site: Pliny Elder SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-59346/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59296 **Prep Batch: 59346**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1022		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.08999		mg/Kg		90	70 - 130	2	35
m,p-Xylenes			0.200	0.1724		mg/Kg		86	70 - 130	2	35
o-Xylene			0.100	0.08750		mg/Kg		88	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-59650/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60035 **Prep Batch: 59650**

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		08/08/23 15:15	08/13/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/23 15:15	08/13/23 08:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/23 15:15	08/13/23 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*08/08/23 15:15*	*08/13/23 08:29*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*08/08/23 15:15*	*08/13/23 08:29*	*1*

Lab Sample ID: LCS 880-59650/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60035 **Prep Batch: 59650**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1121		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1125		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*160*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-59650/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60035 **Prep Batch: 59650**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1140		mg/Kg		114	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-59650/3-A
Matrix: Solid
Analysis Batch: 60035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59650

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	163	S1+	70 - 130
o-Terphenyl (Surr)	144	S1+	70 - 130

Lab Sample ID: 880-31363-1 MS
Matrix: Solid
Analysis Batch: 60035

Client Sample ID: C-271
Prep Type: Total/NA
Prep Batch: 59650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1036		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	292		998	1380		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	162	S1+	70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: 880-31363-1 MSD
Matrix: Solid
Analysis Batch: 60035

Client Sample ID: C-271
Prep Type: Total/NA
Prep Batch: 59650

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	<50.2	U	998	998.7		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	292		998	1348		mg/Kg		106	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	158	S1+	70 - 130
o-Terphenyl (Surr)	121		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58714/1-A
Matrix: Solid
Analysis Batch: 58857

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			07/31/23 14:58	1

Lab Sample ID: LCS 880-58714/2-A
Matrix: Solid
Analysis Batch: 58857

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.5		mg/Kg		95	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-58714/3-A
Matrix: Solid
Analysis Batch: 58857

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	235.0		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-31363-3 MS
Matrix: Solid
Analysis Batch: 58857

Client Sample ID: C-275
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1370	F1	1250	2415	F1	mg/Kg		83	90 - 110		

Lab Sample ID: 880-31363-3 MSD
Matrix: Solid
Analysis Batch: 58857

Client Sample ID: C-275
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1370	F1	1250	2392	F1	mg/Kg		82	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 59296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	8021B	59346
880-31363-2	C-274	Total/NA	Solid	8021B	59346
880-31363-3	C-275	Total/NA	Solid	8021B	59346
880-31363-4	C-278	Total/NA	Solid	8021B	59346
880-31363-5	C-279	Total/NA	Solid	8021B	59346
MB 880-59297/5-A	Method Blank	Total/NA	Solid	8021B	59297
MB 880-59346/5-A	Method Blank	Total/NA	Solid	8021B	59346
LCS 880-59346/1-A	Lab Control Sample	Total/NA	Solid	8021B	59346
LCSD 880-59346/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59346

Prep Batch: 59297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59297/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	5035	
880-31363-2	C-274	Total/NA	Solid	5035	
880-31363-3	C-275	Total/NA	Solid	5035	
880-31363-4	C-278	Total/NA	Solid	5035	
880-31363-5	C-279	Total/NA	Solid	5035	
MB 880-59346/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59346/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59346/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 59551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	Total BTEX	
880-31363-2	C-274	Total/NA	Solid	Total BTEX	
880-31363-3	C-275	Total/NA	Solid	Total BTEX	
880-31363-4	C-278	Total/NA	Solid	Total BTEX	
880-31363-5	C-279	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	8015NM Prep	
880-31363-2	C-274	Total/NA	Solid	8015NM Prep	
880-31363-3	C-275	Total/NA	Solid	8015NM Prep	
880-31363-4	C-278	Total/NA	Solid	8015NM Prep	
880-31363-5	C-279	Total/NA	Solid	8015NM Prep	
MB 880-59650/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59650/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31363-1 MS	C-271	Total/NA	Solid	8015NM Prep	
880-31363-1 MSD	C-271	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	8015B NM	59650

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 60035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-2	C-274	Total/NA	Solid	8015B NM	59650
880-31363-3	C-275	Total/NA	Solid	8015B NM	59650
880-31363-4	C-278	Total/NA	Solid	8015B NM	59650
880-31363-5	C-279	Total/NA	Solid	8015B NM	59650
MB 880-59650/1-A	Method Blank	Total/NA	Solid	8015B NM	59650
LCS 880-59650/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59650
LCSD 880-59650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59650
880-31363-1 MS	C-271	Total/NA	Solid	8015B NM	59650
880-31363-1 MSD	C-271	Total/NA	Solid	8015B NM	59650

Analysis Batch: 60206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Total/NA	Solid	8015 NM	
880-31363-2	C-274	Total/NA	Solid	8015 NM	
880-31363-3	C-275	Total/NA	Solid	8015 NM	
880-31363-4	C-278	Total/NA	Solid	8015 NM	
880-31363-5	C-279	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Soluble	Solid	DI Leach	
880-31363-2	C-274	Soluble	Solid	DI Leach	
880-31363-3	C-275	Soluble	Solid	DI Leach	
880-31363-4	C-278	Soluble	Solid	DI Leach	
880-31363-5	C-279	Soluble	Solid	DI Leach	
MB 880-58714/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58714/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58714/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31363-3 MS	C-275	Soluble	Solid	DI Leach	
880-31363-3 MSD	C-275	Soluble	Solid	DI Leach	

Analysis Batch: 58857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-1	C-271	Soluble	Solid	300.0	58714
880-31363-2	C-274	Soluble	Solid	300.0	58714
880-31363-3	C-275	Soluble	Solid	300.0	58714
880-31363-4	C-278	Soluble	Solid	300.0	58714
880-31363-5	C-279	Soluble	Solid	300.0	58714
MB 880-58714/1-A	Method Blank	Soluble	Solid	300.0	58714
LCS 880-58714/2-A	Lab Control Sample	Soluble	Solid	300.0	58714
LCSD 880-58714/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58714
880-31363-3 MS	C-275	Soluble	Solid	300.0	58714
880-31363-3 MSD	C-275	Soluble	Solid	300.0	58714

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Client Sample ID: C-271

Date Collected: 07/27/23 10:50
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-1

Matrix: Solid

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	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 02:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59551	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			60206	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 11:05	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58714	07/28/23 11:20	KS	EET MID
Soluble	Analysis	300.0		10			58857	07/31/23 16:30	CH	EET MID

Client Sample ID: C-274

Date Collected: 07/27/23 11:10
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 02:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59551	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			60206	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 12:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58714	07/28/23 11:20	KS	EET MID
Soluble	Analysis	300.0		10			58857	07/31/23 16:37	CH	EET MID

Client Sample ID: C-275

Date Collected: 07/27/23 11:20
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-3

Matrix: Solid

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	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 02:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59551	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			60206	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 12:35	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58714	07/28/23 11:20	KS	EET MID
Soluble	Analysis	300.0		5			58857	07/31/23 16:43	CH	EET MID

Client Sample ID: C-278

Date Collected: 07/27/23 11:00
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-4

Matrix: Solid

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	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 04:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59551	08/07/23 16:13	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Client Sample ID: C-278

Date Collected: 07/27/23 11:00
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-4

Matrix: Solid

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			60206	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 12:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58714	07/28/23 11:20	KS	EET MID
Soluble	Analysis	300.0		10			58857	07/31/23 17:01	CH	EET MID

Client Sample ID: C-279

Date Collected: 07/27/23 11:05
Date Received: 07/28/23 09:14

Lab Sample ID: 880-31363-5

Matrix: Solid

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	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 04:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59551	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			60206	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 13:20	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58714	07/28/23 11:20	KS	EET MID
Soluble	Analysis	300.0		10			58857	07/31/23 17:07	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-31363-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-31363-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-31363-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31363-1	C-271	Solid	07/27/23 10:50	07/28/23 09:14
880-31363-2	C-274	Solid	07/27/23 11:10	07/28/23 09:14
880-31363-3	C-275	Solid	07/27/23 11:20	07/28/23 09:14
880-31363-4	C-278	Solid	07/27/23 11:00	07/28/23 09:14
880-31363-5	C-279	Solid	07/27/23 11:05	07/28/23 09:14

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313163

No. 2508

CHAIN-OF-CUSTODY

9/14/2023

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 7/28/2023 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 12-0107-02 COLLECTOR: HW

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	MTBE	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	8081	8082	TCLP-M	TCLP-P	TOTAL	LEAD	RCI	TDS	pH	EXPLOSIVES	CHLORIDE	FIELD NOTES
C-271		7/27/23	1050	S	1				X		X		X	X	X												X		
C-274		7/27/23	1110	S	1				X		X		X	X	X												X		
C-275		7/27/23	1120	S	1				X		X		X	X	X												X		
C-278		7/27/23	1100	S	1				X		X		X	X	X												X		
C-279		7/27/23	1105	S	1				X		X		X	X	X												X		

880-31363 Chain of Custody

TOTAL 5

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Gomez	7/28/23 9:14	[signature] 9:14
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.3/0.4 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Page 22 of 23

Received by OCD: 8/9/2024 11:39:35 AM

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31363-1
SDG Number: 22-0107-02

Login Number: 31363
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/22/2023 1:29:58 PM

JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-31900-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Holly Taylor

Generated
8/22/2023 1:29:58 PM

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

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high 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: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Job ID: 880-31900-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31900-1

Receipt
The samples were received on 8/10/2023 9:31 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 time was 3.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-272 3' (880-31900-1), C-273 3' (880-31900-2), C-276 3' (880-31900-3), C-277 3' (880-31900-4), C-280 3' (880-31900-5), C-281 3' (880-31900-6), C-282 4.1' (880-31900-7), C-283 2' (880-31900-8), C-284 2' (880-31900-9), C-285 2' (880-31900-10), C-286 2' (880-31900-11), C-287 2' (880-31900-12), C-289 2' (880-31900-13), C-290 2' (880-31900-14), C-291 2' (880-31900-15), C-292 2' (880-31900-16), C-293 3' (880-31900-17), C-294 3' (880-31900-18), C-295 3' (880-31900-19), C-298 4.1' (880-31900-20), C-299 4.1' (880-31900-21), C-300 4.1' (880-31900-22), C-301 4.1' (880-31900-23), C-302 4.1' (880-31900-24), C-303 4.1' (880-31900-25), C-304 4.1' (880-31900-26), C-305 4.1' (880-31900-27) and C-309 2' (880-31900-28).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-60487/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60488 and analytical batch 880-60527 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: C-291 2' (880-31900-15), (MB 880-60488/5-A) and (MB 880-60566/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60575 and analytical batch 880-60627 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60627/31), (CCV 880-60627/47), (CCV 880-60627/58) and (LCSD 880-60575/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-272 3' (880-31900-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-276 3' (880-31900-3), C-277 3' (880-31900-4), C-280 3' (880-31900-5), C-281 3' (880-31900-6), C-283 2' (880-31900-8) and C-284 2' (880-31900-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60604 and analytical batch 880-60630 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-285 2' (880-31900-10), C-286 2' (880-31900-11), C-287 2' (880-31900-12), C-289 2' (880-31900-13), (880-32303-A-21-B), (880-32303-A-21-C MS) and (880-32303-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60630/31), (CCV 880-60630/47), (CCV 880-60630/58) and (LCSD 880-60604/3-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Job ID: 880-31900-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The method blank for preparation batch 880-60604 and analytical batch 880-60630 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-290 2' (880-31900-14), C-291 2' (880-31900-15), C-292 2' (880-31900-16), C-293 3' (880-31900-17), C-294 3' (880-31900-18), C-295 3' (880-31900-19), C-298 4.1' (880-31900-20), C-299 4.1' (880-31900-21), C-300 4.1' (880-31900-22), C-301 4.1' (880-31900-23), C-302 4.1' (880-31900-24), C-303 4.1' (880-31900-25), C-304 4.1' (880-31900-26), C-309 2' (880-31900-28), (880-31900-A-14-F MS) and (880-31900-A-14-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60605 and analytical batch 880-60637 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60637/20), (CCV 880-60637/31) and (CCV 880-60637/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59844 and analytical batch 880-60021 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.The associated samples are: C-272 3' (880-31900-1), C-273 3' (880-31900-2), C-276 3' (880-31900-3), C-277 3' (880-31900-4), C-280 3' (880-31900-5), C-281 3' (880-31900-6), C-282 4.1' (880-31900-7), C-283 2' (880-31900-8), C-284 2' (880-31900-9), C-285 2' (880-31900-10), (880-31900-A-1-B MS) and (880-31900-A-1-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59845 and 880-59845 and analytical batch 880-60056 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.The associated samples are: C-299 4.1' (880-31900-21), C-300 4.1' (880-31900-22), C-301 4.1' (880-31900-23), C-302 4.1' (880-31900-24), C-303 4.1' (880-31900-25), C-304 4.1' (880-31900-26), C-305 4.1' (880-31900-27), C-309 2' (880-31900-28), (880-31900-A-21-B MS) and (880-31900-A-21-C MSD).

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-272 3'

Date Collected: 08/09/23 11:00
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-1
Matrix: Solid

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		08/17/23 13:55	08/17/23 17:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 17:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 17:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 17:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 17:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/17/23 13:55*	*08/17/23 17:36*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/17/23 13:55*	*08/17/23 17:36*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.9**		49.7		mg/Kg			08/21/23 13:36	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	<49.7	U	49.7		mg/Kg		08/18/23 14:14	08/21/23 01:44	1
Diesel Range Organics (Over C10-C28)	**75.9**		49.7		mg/Kg		08/18/23 14:14	08/21/23 01:44	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/18/23 14:14	08/21/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 01:44*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*08/18/23 14:14*	*08/21/23 01:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**373**	**F1**	5.05		mg/Kg			08/12/23 01:32	1

Client Sample ID: C-273 3'

Date Collected: 08/09/23 11:02
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-2
Matrix: Solid

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		08/17/23 13:55	08/17/23 18:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 18:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 18:02	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/17/23 13:55	08/17/23 18:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 18:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/17/23 13:55	08/17/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:02*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-273 3'

Date Collected: 08/09/23 11:02
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-2
Matrix: Solid

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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.6**		49.6		mg/Kg			08/21/23 13:36	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	<49.6	U	49.6		mg/Kg		08/18/23 14:14	08/21/23 02:05	1
Diesel Range Organics (Over C10-C28)	**57.6**		49.6		mg/Kg		08/18/23 14:14	08/21/23 02:05	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/18/23 14:14	08/21/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*08/18/23 14:14*	*08/21/23 02:05*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*08/18/23 14:14*	*08/21/23 02:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**482**		4.97		mg/Kg			08/12/23 01:52	1

Client Sample ID: C-276 3'

Date Collected: 08/09/23 11:04
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-3
Matrix: Solid

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		08/17/23 13:55	08/17/23 18:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 18:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 18:28	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/17/23 13:55	08/17/23 18:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 18:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/23 13:55	08/17/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:28*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:28*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/21/23 13:36	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	<50.3	U	50.3		mg/Kg		08/18/23 14:14	08/21/23 02:26	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/18/23 14:14	08/21/23 02:26	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-276 3'
Lab Sample ID: 880-31900-3
Date Collected: 08/09/23 11:04 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<50.3	U	50.3		mg/Kg		08/18/23 14:14	08/21/23 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 02:26*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*08/18/23 14:14*	*08/21/23 02:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**338**		4.97		mg/Kg			08/12/23 01:58	1

Client Sample ID: C-277 3'
Lab Sample ID: 880-31900-4
Date Collected: 08/09/23 11:06 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:55	08/17/23 18:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 18:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 18:53	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/17/23 13:55	08/17/23 18:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 18:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/17/23 13:55	08/17/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:53*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/17/23 13:55*	*08/17/23 18:53*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/21/23 13:36	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	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 02:48	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 02:48	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 02:48*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*08/18/23 14:14*	*08/21/23 02:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		5.03		mg/Kg			08/12/23 02:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-280 3'

Date Collected: 08/09/23 11:08
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-5
Matrix: Solid

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		08/17/23 13:55	08/17/23 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 19:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/17/23 13:55	08/17/23 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 19:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/23 13:55	08/17/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/17/23 13:55*	*08/17/23 19:19*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/17/23 13:55*	*08/17/23 19:19*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.5**		50.1		mg/Kg			08/21/23 13:36	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		08/18/23 14:14	08/21/23 03:09	1
Diesel Range Organics (Over C10-C28)	**73.5**		50.1		mg/Kg		08/18/23 14:14	08/21/23 03:09	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/18/23 14:14	08/21/23 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 03:09*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*08/18/23 14:14*	*08/21/23 03:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**431**		5.04		mg/Kg			08/12/23 02:12	1

Client Sample ID: C-281 3'

Date Collected: 08/09/23 11:10
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-6
Matrix: Solid

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		08/17/23 13:55	08/17/23 19:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 19:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 19:44	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		08/17/23 13:55	08/17/23 19:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:55	08/17/23 19:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/17/23 13:55	08/17/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/17/23 13:55*	*08/17/23 19:44*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/17/23 13:55*	*08/17/23 19:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-281 3'

Date Collected: 08/09/23 11:10
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-6
Matrix: Solid

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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			08/21/23 13:36	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	<49.5	U	49.5		mg/Kg		08/18/23 14:14	08/21/23 03:30	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/18/23 14:14	08/21/23 03:30	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/18/23 14:14	08/21/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 03:30*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*08/18/23 14:14*	*08/21/23 03:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		5.02		mg/Kg			08/12/23 02:32	1

Client Sample ID: C-282 4.1'

Date Collected: 08/09/23 11:12
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-7
Matrix: Solid

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		08/17/23 13:55	08/17/23 20:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 20:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/17/23 13:55*	*08/17/23 20:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/17/23 13:55*	*08/17/23 20:09*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.5**		50.5		mg/Kg			08/21/23 13:36	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	<50.5	U	50.5		mg/Kg		08/18/23 14:14	08/21/23 03:51	1
Diesel Range Organics (Over C10-C28)	**74.5**		50.5		mg/Kg		08/18/23 14:14	08/21/23 03:51	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-282 4.1'
Lab Sample ID: 880-31900-7
Date Collected: 08/09/23 11:12 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<50.5	U	50.5		mg/Kg		08/18/23 14:14	08/21/23 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*08/18/23 14:14*	*08/21/23 03:51*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/18/23 14:14*	*08/21/23 03:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2180**		24.9		mg/Kg			08/12/23 02:38	5

Client Sample ID: C-283 2'
Lab Sample ID: 880-31900-8
Date Collected: 08/09/23 11:30 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:55	08/17/23 20:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 20:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:55	08/17/23 20:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:55	08/17/23 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/17/23 13:55*	*08/17/23 20:35*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/17/23 13:55*	*08/17/23 20:35*	*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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/21/23 13:36	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	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 04:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 04:12	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/18/23 14:14	08/21/23 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*166*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 04:12*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 04:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**624**		4.99		mg/Kg			08/12/23 02:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-284 2'

Lab Sample ID: 880-31900-9
Matrix: Solid
Date Collected: 08/09/23 11:32
Date Received: 08/10/23 09:31

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		08/17/23 13:55	08/17/23 21:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:55	08/17/23 21:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:55	08/17/23 21:00	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/17/23 13:55	08/17/23 21:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:55	08/17/23 21:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/17/23 13:55	08/17/23 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/17/23 13:55*	*08/17/23 21:00*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/17/23 13:55*	*08/17/23 21:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/18/23 08:48	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			08/21/23 13:36	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		08/18/23 14:14	08/21/23 04:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/23 14:14	08/21/23 04:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/23 14:14	08/21/23 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*143*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/21/23 04:33*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*08/18/23 14:14*	*08/21/23 04:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**438**		5.04		mg/Kg			08/12/23 02:52	1

Client Sample ID: C-285 2'

Lab Sample ID: 880-31900-10
Matrix: Solid
Date Collected: 08/09/23 11:34
Date Received: 08/10/23 09:31

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		08/17/23 13:55	08/17/23 21:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 21:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 21:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/17/23 13:55	08/17/23 21:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:55	08/17/23 21:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/23 13:55	08/17/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/17/23 13:55*	*08/17/23 21:25*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/17/23 13:55*	*08/17/23 21:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-285 2'

Date Collected: 08/09/23 11:34
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-10
Matrix: Solid

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			08/18/23 08:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/21/23 14:40	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	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:30	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:30	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*08/18/23 18:11*	*08/21/23 03:30*	*1*
o-Terphenyl (Surr)	*140*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 03:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**462**		4.98		mg/Kg			08/12/23 02:58	1

Client Sample ID: C-286 2'

Date Collected: 08/09/23 11:36
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-11
Matrix: Solid

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		08/17/23 13:55	08/17/23 23:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 23:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 23:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/17/23 13:55	08/17/23 23:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 23:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/17/23 13:55	08/17/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/17/23 13:55*	*08/17/23 23:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:55*	*08/17/23 23:07*	*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			08/21/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/21/23 14:40	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	<50.5	U	50.5		mg/Kg		08/18/23 18:11	08/21/23 03:51	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/18/23 18:11	08/21/23 03:51	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-286 2' — Lab Sample ID: 880-31900-11

Date Collected: 08/09/23 11:36 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<50.5	U	50.5		mg/Kg		08/18/23 18:11	08/21/23 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 03:51*	*1*
o-Terphenyl (Surr)	*145*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 03:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		5.02		mg/Kg			08/12/23 03:05	1

Client Sample ID: C-287 2' — Lab Sample ID: 880-31900-12

Date Collected: 08/09/23 12:00 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 08:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:02	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 08:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/17/23 13:58*	*08/19/23 08:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:58*	*08/19/23 08:02*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/21/23 14:40	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	<49.6	U	49.6		mg/Kg		08/18/23 18:11	08/21/23 04:12	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/18/23 18:11	08/21/23 04:12	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/18/23 18:11	08/21/23 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 04:12*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 04:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**222**		4.97		mg/Kg			08/12/23 03:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-289 2'

Date Collected: 08/09/23 12:02
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-13

Matrix: Solid

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		08/17/23 13:58	08/19/23 08:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:28	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 08:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 08:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:58*	*08/19/23 08:28*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/17/23 13:58*	*08/19/23 08:28*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.6		mg/Kg			08/21/23 14:40	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	<49.6	U	49.6		mg/Kg		08/18/23 18:11	08/21/23 04:33	1
Diesel Range Organics (Over C10-C28)	**121**		49.6		mg/Kg		08/18/23 18:11	08/21/23 04:33	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/18/23 18:11	08/21/23 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 04:33*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 04:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**621**		4.99		mg/Kg			08/12/23 03:31	1

Client Sample ID: C-290 2'

Date Collected: 08/09/23 12:04
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-14

Matrix: Solid

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		08/17/23 13:58	08/19/23 10:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 10:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 10:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 10:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 10:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/17/23 13:58*	*08/19/23 10:12*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/17/23 13:58*	*08/19/23 10:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-290 2'

Lab Sample ID: 880-31900-14
Matrix: Solid
Date Collected: 08/09/23 12:04
Date Received: 08/10/23 09:31

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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/22/23 14:01	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	<50.3	U	50.3		mg/Kg		08/18/23 18:17	08/21/23 10:29	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/18/23 18:17	08/21/23 10:29	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/18/23 18:17	08/21/23 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*157*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 10:29*	*1*
o-Terphenyl (Surr)	*164*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 10:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		5.04		mg/Kg			08/12/23 03:51	1

Client Sample ID: C-291 2'

Lab Sample ID: 880-31900-15
Matrix: Solid
Date Collected: 08/09/23 12:06
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 10:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 10:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 10:38	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		08/17/23 13:58	08/19/23 10:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 10:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/17/23 13:58	08/19/23 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/17/23 13:58*	*08/19/23 10:38*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/17/23 13:58*	*08/19/23 10:38*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**722**		50.3		mg/Kg			08/22/23 14:01	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	<50.3	U	50.3		mg/Kg		08/18/23 18:17	08/21/23 11:35	1
Diesel Range Organics (Over C10-C28)	**722**		50.3		mg/Kg		08/18/23 18:17	08/21/23 11:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-291 2' — Lab Sample ID: 880-31900-15

Date Collected: 08/09/23 12:06 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<50.3	U	50.3		mg/Kg		08/18/23 18:17	08/21/23 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*158*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 11:35*	*1*
o-Terphenyl (Surr)	*155*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 11:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		25.2		mg/Kg			08/12/23 03:58	5

Client Sample ID: C-292 2' — Lab Sample ID: 880-31900-16

Date Collected: 08/09/23 12:08 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 11:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:03	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 11:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:03*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**72.8**		50.5		mg/Kg			08/22/23 14:01	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	<50.5	U	50.5		mg/Kg		08/18/23 18:17	08/21/23 11:57	1
Diesel Range Organics (Over C10-C28)	**72.8**		50.5		mg/Kg		08/18/23 18:17	08/21/23 11:57	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/18/23 18:17	08/21/23 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 11:57*	*1*
o-Terphenyl (Surr)	*177*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 11:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		5.03		mg/Kg			08/12/23 04:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-293 3'

Lab Sample ID: 880-31900-17
Matrix: Solid
Date Collected: 08/09/23 12:10
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 11:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:29	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 11:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 11:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:29*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:29*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/22/23 14:01	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	<50.5	U	50.5		mg/Kg		08/18/23 18:17	08/21/23 12:19	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/18/23 18:17	08/21/23 12:19	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/18/23 18:17	08/21/23 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 12:19*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 12:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		5.05		mg/Kg			08/12/23 04:11	1

Client Sample ID: C-294 3'

Lab Sample ID: 880-31900-18
Matrix: Solid
Date Collected: 08/09/23 12:12
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 11:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/17/23 13:58	08/19/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 11:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/17/23 13:58	08/19/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/17/23 13:58*	*08/19/23 11:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-294 3'

Lab Sample ID: 880-31900-18
Matrix: Solid
Date Collected: 08/09/23 12:12
Date Received: 08/10/23 09:31

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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**70.8**		50.1		mg/Kg			08/22/23 14:01	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		08/18/23 18:17	08/21/23 12:41	1
Diesel Range Organics (Over C10-C28)	**70.8**		50.1		mg/Kg		08/18/23 18:17	08/21/23 12:41	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/18/23 18:17	08/21/23 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 12:41*	*1*
o-Terphenyl (Surr)	*151*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		4.96		mg/Kg			08/12/23 04:18	1

Client Sample ID: C-295 3'

Lab Sample ID: 880-31900-19
Matrix: Solid
Date Collected: 08/09/23 12:14
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/17/23 13:58*	*08/19/23 12:20*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/17/23 13:58*	*08/19/23 12:20*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/22/23 14:01	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	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 13:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 13:03	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-295 3' — Lab Sample ID: 880-31900-19

Date Collected: 08/09/23 12:14 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:03*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		4.97		mg/Kg			08/12/23 04:25	1

Client Sample ID: C-298 4.1' — Lab Sample ID: 880-31900-20

Date Collected: 08/09/23 12:16 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 12:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 12:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 12:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/17/23 13:58*	*08/19/23 12:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/17/23 13:58*	*08/19/23 12:46*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**86.2**		49.8		mg/Kg			08/22/23 14:01	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		08/18/23 18:17	08/21/23 13:24	1
Diesel Range Organics (Over C10-C28)	**86.2**		49.8		mg/Kg		08/18/23 18:17	08/21/23 13:24	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/18/23 18:17	08/21/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:24*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2070**		25.2		mg/Kg			08/12/23 04:31	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-299 4.1'

Lab Sample ID: 880-31900-21
Matrix: Solid
Date Collected: 08/09/23 12:18
Date Received: 08/10/23 09:31

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		08/17/23 13:58	08/19/23 04:36	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		08/17/23 13:58	08/19/23 04:36	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		08/17/23 13:58	08/19/23 04:36	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		08/17/23 13:58	08/19/23 04:36	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		08/17/23 13:58	08/19/23 04:36	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		08/17/23 13:58	08/19/23 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/17/23 13:58*	*08/19/23 04:36*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/17/23 13:58*	*08/19/23 04:36*	*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			08/21/23 11:52	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			08/22/23 14:01	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		08/18/23 18:17	08/21/23 13:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/23 18:17	08/21/23 13:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/23 18:17	08/21/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:46*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 13:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**517**	**F1**	4.99		mg/Kg			08/12/23 19:03	1

Client Sample ID: C-300 4.1'

Lab Sample ID: 880-31900-22
Matrix: Solid
Date Collected: 08/09/23 12:20
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 05:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:58	08/19/23 05:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:58	08/19/23 05:01	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/17/23 13:58	08/19/23 05:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:58	08/19/23 05:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/17/23 13:58	08/19/23 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-300 4.1'

Date Collected: 08/09/23 12:20
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-22
Matrix: Solid

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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.3**		50.0		mg/Kg			08/22/23 14:01	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		08/18/23 18:17	08/21/23 14:08	1
Diesel Range Organics (Over C10-C28)	**59.3**		50.0		mg/Kg		08/18/23 18:17	08/21/23 14:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:17	08/21/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*160*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 14:08*	*1*
o-Terphenyl (Surr)	*174*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 14:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**337**		5.00		mg/Kg			08/12/23 19:24	1

Client Sample ID: C-301 4.1'

Date Collected: 08/09/23 12:22
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-23
Matrix: Solid

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		08/17/23 13:58	08/19/23 05:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 05:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 05:27	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 05:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/23 13:58	08/19/23 05:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/23 13:58	08/19/23 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:27*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.7**		50.2		mg/Kg			08/22/23 14:01	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	<50.2	U	50.2		mg/Kg		08/18/23 18:17	08/21/23 14:31	1
Diesel Range Organics (Over C10-C28)	**56.7**		50.2		mg/Kg		08/18/23 18:17	08/21/23 14:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-301 4.1' Lab Sample ID: 880-31900-23

Date Collected: 08/09/23 12:22 **Matrix: Solid**
Date Received: 08/10/23 09:31

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)	<50.2	U	50.2		mg/Kg		08/18/23 18:17	08/21/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*08/18/23 18:17*	*08/21/23 14:31*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 14:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3610**		49.6		mg/Kg			08/12/23 19:31	10

Client Sample ID: C-302 4.1' Lab Sample ID: 880-31900-24

Date Collected: 08/09/23 12:24 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 05:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 05:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 05:52	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		08/17/23 13:58	08/19/23 05:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/17/23 13:58	08/19/23 05:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/17/23 13:58	08/19/23 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:52*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/17/23 13:58*	*08/19/23 05:52*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**168**		50.2		mg/Kg			08/22/23 14:01	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	<50.2	U	50.2		mg/Kg		08/18/23 18:17	08/21/23 15:14	1
Diesel Range Organics (Over C10-C28)	**168**		50.2		mg/Kg		08/18/23 18:17	08/21/23 15:14	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/18/23 18:17	08/21/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:14*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1730**		25.1		mg/Kg			08/12/23 19:39	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-303 4.1'

Lab Sample ID: 880-31900-25
Matrix: Solid
Date Collected: 08/09/23 12:26
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 06:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 06:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/23 13:58	08/19/23 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/17/23 13:58*	*08/19/23 06:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/17/23 13:58*	*08/19/23 06:18*	*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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.7**		50.4		mg/Kg			08/22/23 14:01	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	<50.4	U	50.4		mg/Kg		08/18/23 18:17	08/21/23 15:36	1
Diesel Range Organics (Over C10-C28)	**75.7**		50.4		mg/Kg		08/18/23 18:17	08/21/23 15:36	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/18/23 18:17	08/21/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*148*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:36*	*1*
o-Terphenyl (Surr)	*149*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1320**		25.0		mg/Kg			08/12/23 19:46	5

Client Sample ID: C-304 4.1'

Lab Sample ID: 880-31900-26
Matrix: Solid
Date Collected: 08/09/23 12:28
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 06:44	1
Toluene	**0.00227**		0.00198		mg/Kg		08/17/23 13:58	08/19/23 06:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:58	08/19/23 06:44	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		08/17/23 13:58	08/19/23 06:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/23 13:58	08/19/23 06:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/17/23 13:58	08/19/23 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:58*	*08/19/23 06:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/17/23 13:58*	*08/19/23 06:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-304 4.1'

Date Collected: 08/09/23 12:28
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-26
Matrix: Solid

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			08/21/23 11:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/22/23 14:01	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	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 15:58	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 15:58	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/18/23 18:17	08/21/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:58*	*1*
o-Terphenyl (Surr)	*140*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1980**		24.8		mg/Kg			08/12/23 20:07	5

Client Sample ID: C-305 4.1'

Date Collected: 08/09/23 12:30
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-27
Matrix: Solid

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		08/17/23 13:58	08/19/23 07:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 07:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/17/23 13:58*	*08/19/23 07:10*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/17/23 13:58*	*08/19/23 07:10*	*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			08/21/23 11:52	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			08/22/23 14:01	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		08/18/23 18:17	08/21/23 16:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/18/23 18:17	08/21/23 16:20	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-305 4.1' Lab Sample ID: 880-31900-27

Date Collected: 08/09/23 12:30 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/18/23 18:17	08/21/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*08/18/23 18:17*	*08/21/23 16:20*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/18/23 18:17*	*08/21/23 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**822**		24.9		mg/Kg			08/12/23 20:14	5

Client Sample ID: C-309 2' Lab Sample ID: 880-31900-28

Date Collected: 08/09/23 12:32 **Matrix: Solid**
Date Received: 08/10/23 09:31

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		08/17/23 13:58	08/19/23 07:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 07:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 13:58	08/19/23 07:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 13:58	08/19/23 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/17/23 13:58*	*08/19/23 07:36*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/17/23 13:58*	*08/19/23 07:36*	*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			08/21/23 11:52	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			08/22/23 14:01	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		08/18/23 18:17	08/21/23 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/23 18:17	08/21/23 16:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/23 18:17	08/21/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*165*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 16:42*	*1*
o-Terphenyl (Surr)	*172*	*S1+*	*70 - 130*	*08/18/23 18:17*	*08/21/23 16:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**352**		5.00		mg/Kg			08/12/23 20:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31900-1	C-272 3'	102	104										
880-31900-1 MS	C-272 3'	92	95										
880-31900-1 MSD	C-272 3'	103	97										
880-31900-2	C-273 3'	97	91										
880-31900-3	C-276 3'	106	94										
880-31900-4	C-277 3'	108	105										
880-31900-5	C-280 3'	107	105										
880-31900-6	C-281 3'	109	114										
880-31900-7	C-282 4.1'	114	97										
880-31900-8	C-283 2'	125	116										
880-31900-9	C-284 2'	105	100										
880-31900-10	C-285 2'	129	112										
880-31900-11	C-286 2'	100	98										
880-31900-12	C-287 2'	103	98										
880-31900-13	C-289 2'	98	93										
880-31900-14	C-290 2'	110	96										
880-31900-15	C-291 2'	135 S1+	113										
880-31900-16	C-292 2'	110	100										
880-31900-17	C-293 3'	113	100										
880-31900-18	C-294 3'	103	91										
880-31900-19	C-295 3'	115	117										
880-31900-20	C-298 4.1'	105	89										
880-31900-21	C-299 4.1'	82	81										
880-31900-21 MS	C-299 4.1'	110	100										
880-31900-21 MSD	C-299 4.1'	104	99										
880-31900-22	C-300 4.1'	92	94										
880-31900-23	C-301 4.1'	93	98										
880-31900-24	C-302 4.1'	90	89										
880-31900-25	C-303 4.1'	108	92										
880-31900-26	C-304 4.1'	98	98										
880-31900-27	C-305 4.1'	111	95										
880-31900-28	C-309 2'	118	97										
LCS 880-60487/1-A	Lab Control Sample	96	93										
LCS 880-60488/1-A	Lab Control Sample	86	93										
LCSD 880-60487/2-A	Lab Control Sample Dup	96	97										
LCSD 880-60488/2-A	Lab Control Sample Dup	93	87										
MB 880-60487/5-A	Method Blank	56 S1-	95										
MB 880-60488/5-A	Method Blank	65 S1-	96										
MB 880-60566/5-A	Method Blank	57 S1-	0.1 S1-										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31900-1	C-272 3'	139 S1+	122										
880-31900-2	C-273 3'	130	113										
880-31900-3	C-276 3'	146 S1+	128										
880-31900-4	C-277 3'	132 S1+	114										
880-31900-5	C-280 3'	146 S1+	130										
880-31900-6	C-281 3'	135 S1+	116										
880-31900-7	C-282 4.1'	128	111										
880-31900-8	C-283 2'	166 S1+	148 S1+										
880-31900-9	C-284 2'	143 S1+	123										
880-31900-10	C-285 2'	130	140 S1+										
880-31900-11	C-286 2'	135 S1+	145 S1+										
880-31900-12	C-287 2'	138 S1+	148 S1+										
880-31900-13	C-289 2'	134 S1+	148 S1+										
880-31900-14	C-290 2'	157 S1+	164 S1+										
880-31900-14 MS	C-290 2'	163 S1+	154 S1+										
880-31900-14 MSD	C-290 2'	157 S1+	151 S1+										
880-31900-15	C-291 2'	158 S1+	155 S1+										
880-31900-16	C-292 2'	163 S1+	177 S1+										
880-31900-17	C-293 3'	145 S1+	157 S1+										
880-31900-18	C-294 3'	142 S1+	151 S1+										
880-31900-19	C-295 3'	144 S1+	157 S1+										
880-31900-20	C-298 4.1'	132 S1+	138 S1+										
880-31900-21	C-299 4.1'	136 S1+	141 S1+										
880-31900-22	C-300 4.1'	160 S1+	174 S1+										
880-31900-23	C-301 4.1'	129	142 S1+										
880-31900-24	C-302 4.1'	145 S1+	150 S1+										
880-31900-25	C-303 4.1'	148 S1+	149 S1+										
880-31900-26	C-304 4.1'	134 S1+	140 S1+										
880-31900-27	C-305 4.1'	107	111										
880-31900-28	C-309 2'	165 S1+	172 S1+										
LCS 880-60575/2-A	Lab Control Sample	119	102										
LCS 880-60604/2-A	Lab Control Sample	104	116										
LCS 880-60605/2-A	Lab Control Sample	96	108										
LCSD 880-60575/3-A	Lab Control Sample Dup	154 S1+	136 S1+										
LCSD 880-60604/3-A	Lab Control Sample Dup	128	143 S1+										
LCSD 880-60605/3-A	Lab Control Sample Dup	102	117										
MB 880-60575/1-A	Method Blank	176 S1+	162 S1+										
MB 880-60604/1-A	Method Blank	137 S1+	155 S1+										
MB 880-60605/1-A	Method Blank	155 S1+	171 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60487/5-A
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60487

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 17:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/17/23 13:55	08/17/23 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:55	08/17/23 17:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:55	08/17/23 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*08/17/23 13:55*	*08/17/23 17:10*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/17/23 13:55*	*08/17/23 17:10*	*1*

Lab Sample ID: LCS 880-60487/1-A
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09006		mg/Kg		90	70 - 130		
Toluene			0.100	0.09056		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09927		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2057		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09803		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-60487/2-A
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60487

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1048		mg/Kg		105	70 - 130	15	35
Toluene			0.100	0.1086		mg/Kg		109	70 - 130	18	35
Ethylbenzene			0.100	0.1105		mg/Kg		111	70 - 130	11	35
m,p-Xylenes			0.200	0.2324		mg/Kg		116	70 - 130	12	35
o-Xylene			0.100	0.1111		mg/Kg		111	70 - 130	13	35

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

Lab Sample ID: 880-31900-1 MS
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: C-272 3'
Prep Type: Total/NA
Prep Batch: 60487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.09470		mg/Kg		95	70 - 130		
Toluene	<0.00199	U	0.0998	0.09316		mg/Kg		93	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: 880-31900-1 MS
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: C-272 3'
Prep Type: Total/NA
Prep Batch: 60487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.09125		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08817		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-31900-1 MSD
Matrix: Solid
Analysis Batch: 60486

Client Sample ID: C-272 3'
Prep Type: Total/NA
Prep Batch: 60487

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08930		mg/Kg		89	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.09828		mg/Kg		97	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.09883		mg/Kg		98	70 - 130	8	35
m,p-Xylenes	<0.00398	U	0.202	0.2035		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09674		mg/Kg		96	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-60488/5-A
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60488

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 04:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 04:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 04:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 04:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:58	08/19/23 04:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:58	08/19/23 04:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*08/17/23 13:58*	*08/19/23 04:10*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/17/23 13:58*	*08/19/23 04:10*	*1*

Lab Sample ID: LCS 880-60488/1-A
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09308		mg/Kg		93	70 - 130
Toluene	0.100	0.09011		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08683		mg/Kg		87	70 - 130
m,p-Xylenes	0.200	0.1674		mg/Kg		84	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-60488/1-A
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60488

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08564		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-60488/2-A
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08411		mg/Kg		84	70 - 130	10	35
Toluene			0.100	0.08904		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.08917		mg/Kg		89	70 - 130	3	35
m,p-Xylenes			0.200	0.1716		mg/Kg		86	70 - 130	2	35
o-Xylene			0.100	0.08590		mg/Kg		86	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-31900-21 MS
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: C-299 4.1'
Prep Type: Total/NA
Prep Batch: 60488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0996	0.05547	F1	mg/Kg		56	70 - 130		
Toluene	<0.00199	U F1	0.0996	0.03444	F1	mg/Kg		35	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.02781	F1	mg/Kg		28	70 - 130		
m,p-Xylenes	<0.00398	U F1	0.199	0.04091	F1	mg/Kg		21	70 - 130		
o-Xylene	<0.00199	U F1	0.0996	0.02418	F1	mg/Kg		24	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-31900-21 MSD
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: C-299 4.1'
Prep Type: Total/NA
Prep Batch: 60488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.05055	F1	mg/Kg		50	70 - 130	9	35
Toluene	<0.00199	U F1	0.101	0.03358	F1	mg/Kg		33	70 - 130	3	35
Ethylbenzene	<0.00199	U F1	0.101	0.02610	F1	mg/Kg		26	70 - 130	6	35
m,p-Xylenes	<0.00398	U F1	0.202	0.03222	F1	mg/Kg		16	70 - 130	24	35
o-Xylene	<0.00199	U F1	0.101	0.01982	F1	mg/Kg		20	70 - 130	20	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: 880-31900-21 MSD
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: C-299 4.1'
Prep Type: Total/NA
Prep Batch: 60488

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-60566/5-A
Matrix: Solid
Analysis Batch: 60527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60566

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 10:40	08/18/23 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 10:40	08/18/23 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 10:40	08/18/23 14:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/18/23 10:40	08/18/23 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 10:40	08/18/23 14:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 10:40	08/18/23 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*08/18/23 10:40*	*08/18/23 14:19*	*1*
1,4-Difluorobenzene (Surr)	*0.1*	*S1-*	*70 - 130*	*08/18/23 10:40*	*08/18/23 14:19*	*1*

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

Lab Sample ID: MB 880-60575/1-A
Matrix: Solid
Analysis Batch: 60627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60575

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		08/18/23 14:14	08/20/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/23 14:14	08/20/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 14:14	08/20/23 19:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*176*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/20/23 19:33*	*1*
o-Terphenyl (Surr)	*162*	*S1+*	*70 - 130*	*08/18/23 14:14*	*08/20/23 19:33*	*1*

Lab Sample ID: LCS 880-60575/2-A
Matrix: Solid
Analysis Batch: 60627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1005		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	961.3		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	*119*		*70 - 130*
o-Terphenyl (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-60575/3-A
Matrix: Solid
Analysis Batch: 60627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60575

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1199		mg/Kg		120	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	1136		mg/Kg		114	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*154*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-60604/1-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60604

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		08/18/23 18:11	08/20/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/20/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/20/23 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/20/23 19:33*	*1*
o-Terphenyl (Surr)	*155*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/20/23 19:33*	*1*

Lab Sample ID: LCS 880-60604/2-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1056		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1002		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*116*		*70 - 130*

Lab Sample ID: LCSD 880-60604/3-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1053		mg/Kg		105	70 - 130	5	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-60604/3-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60604

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	128		70 - 130
o-Terphenyl (Surr)	143	S1+	70 - 130

Lab Sample ID: MB 880-60605/1-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60605

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		08/18/23 18:17	08/21/23 07:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/23 18:17	08/21/23 07:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:17	08/21/23 07:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	155	S1+	70 - 130	08/18/23 18:17	08/21/23 07:55	1
o-Terphenyl (Surr)	171	S1+	70 - 130	08/18/23 18:17	08/21/23 07:55	1

Lab Sample ID: LCS 880-60605/2-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	915.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-60605/3-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	951.8		mg/Kg		95	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	844.3		mg/Kg		84	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	117		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

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

Lab Sample ID: 880-31900-14 MS
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: C-290 2'
Prep Type: Total/NA
Prep Batch: 60605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	1095		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1240		mg/Kg		121	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*154*	*S1+*	*70 - 130*

Lab Sample ID: 880-31900-14 MSD
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: C-290 2'
Prep Type: Total/NA
Prep Batch: 60605

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	<50.3	U	997	950.2		mg/Kg		91	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1198		mg/Kg		117	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*157*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*151*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59844/1-A
Matrix: Solid
Analysis Batch: 60021

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			08/12/23 01:12	1

Lab Sample ID: LCS 880-59844/2-A
Matrix: Solid
Analysis Batch: 60021

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-59844/3-A
Matrix: Solid
Analysis Batch: 60021

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	262.3		mg/Kg		105	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-31900-1 MS
Matrix: Solid
Analysis Batch: 60021

Client Sample ID: C-272 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	373	F1	253	578.4	F1	mg/Kg		81	90 - 110

Lab Sample ID: 880-31900-1 MSD
Matrix: Solid
Analysis Batch: 60021

Client Sample ID: C-272 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	373	F1	253	584.8	F1	mg/Kg		84	90 - 110	1	20

Lab Sample ID: 880-31900-11 MS
Matrix: Solid
Analysis Batch: 60021

Client Sample ID: C-286 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	184		251	459.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-31900-11 MSD
Matrix: Solid
Analysis Batch: 60021

Client Sample ID: C-286 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	184		251	459.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-59845/1-A
Matrix: Solid
Analysis Batch: 60056

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			08/12/23 18:41	1

Lab Sample ID: LCS 880-59845/2-A
Matrix: Solid
Analysis Batch: 60056

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-59845/3-A
Matrix: Solid
Analysis Batch: 60056

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	259.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-31900-21 MS
Matrix: Solid
Analysis Batch: 60056

Client Sample ID: C-299 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	517	F1	250	714.1	F1	mg/Kg		79	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-31900-21 MSD
Matrix: Solid
Analysis Batch: 60056

Client Sample ID: C-299 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	517	F1	250	718.2	F1	mg/Kg		81	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 60486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	8021B	60487
880-31900-2	C-273 3'	Total/NA	Solid	8021B	60487
880-31900-3	C-276 3'	Total/NA	Solid	8021B	60487
880-31900-4	C-277 3'	Total/NA	Solid	8021B	60487
880-31900-5	C-280 3'	Total/NA	Solid	8021B	60487
880-31900-6	C-281 3'	Total/NA	Solid	8021B	60487
880-31900-7	C-282 4.1'	Total/NA	Solid	8021B	60487
880-31900-8	C-283 2'	Total/NA	Solid	8021B	60487
880-31900-9	C-284 2'	Total/NA	Solid	8021B	60487
880-31900-10	C-285 2'	Total/NA	Solid	8021B	60487
880-31900-11	C-286 2'	Total/NA	Solid	8021B	60487
MB 880-60487/5-A	Method Blank	Total/NA	Solid	8021B	60487
LCS 880-60487/1-A	Lab Control Sample	Total/NA	Solid	8021B	60487
LCSD 880-60487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60487
880-31900-1 MS	C-272 3'	Total/NA	Solid	8021B	60487
880-31900-1 MSD	C-272 3'	Total/NA	Solid	8021B	60487

Prep Batch: 60487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	5035	
880-31900-2	C-273 3'	Total/NA	Solid	5035	
880-31900-3	C-276 3'	Total/NA	Solid	5035	
880-31900-4	C-277 3'	Total/NA	Solid	5035	
880-31900-5	C-280 3'	Total/NA	Solid	5035	
880-31900-6	C-281 3'	Total/NA	Solid	5035	
880-31900-7	C-282 4.1'	Total/NA	Solid	5035	
880-31900-8	C-283 2'	Total/NA	Solid	5035	
880-31900-9	C-284 2'	Total/NA	Solid	5035	
880-31900-10	C-285 2'	Total/NA	Solid	5035	
880-31900-11	C-286 2'	Total/NA	Solid	5035	
MB 880-60487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31900-1 MS	C-272 3'	Total/NA	Solid	5035	
880-31900-1 MSD	C-272 3'	Total/NA	Solid	5035	

Prep Batch: 60488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-12	C-287 2'	Total/NA	Solid	5035	
880-31900-13	C-289 2'	Total/NA	Solid	5035	
880-31900-14	C-290 2'	Total/NA	Solid	5035	
880-31900-15	C-291 2'	Total/NA	Solid	5035	
880-31900-16	C-292 2'	Total/NA	Solid	5035	
880-31900-17	C-293 3'	Total/NA	Solid	5035	
880-31900-18	C-294 3'	Total/NA	Solid	5035	
880-31900-19	C-295 3'	Total/NA	Solid	5035	
880-31900-20	C-298 4.1'	Total/NA	Solid	5035	
880-31900-21	C-299 4.1'	Total/NA	Solid	5035	
880-31900-22	C-300 4.1'	Total/NA	Solid	5035	
880-31900-23	C-301 4.1'	Total/NA	Solid	5035	
880-31900-24	C-302 4.1'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

GC VOA (Continued)

Prep Batch: 60488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-25	C-303 4.1'	Total/NA	Solid	5035	
880-31900-26	C-304 4.1'	Total/NA	Solid	5035	
880-31900-27	C-305 4.1'	Total/NA	Solid	5035	
880-31900-28	C-309 2'	Total/NA	Solid	5035	
MB 880-60488/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60488/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60488/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31900-21 MS	C-299 4.1'	Total/NA	Solid	5035	
880-31900-21 MSD	C-299 4.1'	Total/NA	Solid	5035	

Analysis Batch: 60527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-12	C-287 2'	Total/NA	Solid	8021B	60488
880-31900-13	C-289 2'	Total/NA	Solid	8021B	60488
880-31900-14	C-290 2'	Total/NA	Solid	8021B	60488
880-31900-15	C-291 2'	Total/NA	Solid	8021B	60488
880-31900-16	C-292 2'	Total/NA	Solid	8021B	60488
880-31900-17	C-293 3'	Total/NA	Solid	8021B	60488
880-31900-18	C-294 3'	Total/NA	Solid	8021B	60488
880-31900-19	C-295 3'	Total/NA	Solid	8021B	60488
880-31900-20	C-298 4.1'	Total/NA	Solid	8021B	60488
880-31900-21	C-299 4.1'	Total/NA	Solid	8021B	60488
880-31900-22	C-300 4.1'	Total/NA	Solid	8021B	60488
880-31900-23	C-301 4.1'	Total/NA	Solid	8021B	60488
880-31900-24	C-302 4.1'	Total/NA	Solid	8021B	60488
880-31900-25	C-303 4.1'	Total/NA	Solid	8021B	60488
880-31900-26	C-304 4.1'	Total/NA	Solid	8021B	60488
880-31900-27	C-305 4.1'	Total/NA	Solid	8021B	60488
880-31900-28	C-309 2'	Total/NA	Solid	8021B	60488
MB 880-60488/5-A	Method Blank	Total/NA	Solid	8021B	60488
MB 880-60566/5-A	Method Blank	Total/NA	Solid	8021B	60566
LCS 880-60488/1-A	Lab Control Sample	Total/NA	Solid	8021B	60488
LCSD 880-60488/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60488
880-31900-21 MS	C-299 4.1'	Total/NA	Solid	8021B	60488
880-31900-21 MSD	C-299 4.1'	Total/NA	Solid	8021B	60488

Analysis Batch: 60541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	Total BTEX	
880-31900-2	C-273 3'	Total/NA	Solid	Total BTEX	
880-31900-3	C-276 3'	Total/NA	Solid	Total BTEX	
880-31900-4	C-277 3'	Total/NA	Solid	Total BTEX	
880-31900-5	C-280 3'	Total/NA	Solid	Total BTEX	
880-31900-6	C-281 3'	Total/NA	Solid	Total BTEX	
880-31900-7	C-282 4.1'	Total/NA	Solid	Total BTEX	
880-31900-8	C-283 2'	Total/NA	Solid	Total BTEX	
880-31900-9	C-284 2'	Total/NA	Solid	Total BTEX	
880-31900-10	C-285 2'	Total/NA	Solid	Total BTEX	
880-31900-11	C-286 2'	Total/NA	Solid	Total BTEX	
880-31900-12	C-287 2'	Total/NA	Solid	Total BTEX	
880-31900-13	C-289 2'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

GC VOA (Continued)

Analysis Batch: 60541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-14	C-290 2'	Total/NA	Solid	Total BTEX	
880-31900-15	C-291 2'	Total/NA	Solid	Total BTEX	
880-31900-16	C-292 2'	Total/NA	Solid	Total BTEX	
880-31900-17	C-293 3'	Total/NA	Solid	Total BTEX	
880-31900-18	C-294 3'	Total/NA	Solid	Total BTEX	
880-31900-19	C-295 3'	Total/NA	Solid	Total BTEX	
880-31900-20	C-298 4.1'	Total/NA	Solid	Total BTEX	
880-31900-21	C-299 4.1'	Total/NA	Solid	Total BTEX	
880-31900-22	C-300 4.1'	Total/NA	Solid	Total BTEX	
880-31900-23	C-301 4.1'	Total/NA	Solid	Total BTEX	
880-31900-24	C-302 4.1'	Total/NA	Solid	Total BTEX	
880-31900-25	C-303 4.1'	Total/NA	Solid	Total BTEX	
880-31900-26	C-304 4.1'	Total/NA	Solid	Total BTEX	
880-31900-27	C-305 4.1'	Total/NA	Solid	Total BTEX	
880-31900-28	C-309 2'	Total/NA	Solid	Total BTEX	

Prep Batch: 60566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60566/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 60575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	8015NM Prep	
880-31900-2	C-273 3'	Total/NA	Solid	8015NM Prep	
880-31900-3	C-276 3'	Total/NA	Solid	8015NM Prep	
880-31900-4	C-277 3'	Total/NA	Solid	8015NM Prep	
880-31900-5	C-280 3'	Total/NA	Solid	8015NM Prep	
880-31900-6	C-281 3'	Total/NA	Solid	8015NM Prep	
880-31900-7	C-282 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-8	C-283 2'	Total/NA	Solid	8015NM Prep	
880-31900-9	C-284 2'	Total/NA	Solid	8015NM Prep	
MB 880-60575/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60575/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 60604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-10	C-285 2'	Total/NA	Solid	8015NM Prep	
880-31900-11	C-286 2'	Total/NA	Solid	8015NM Prep	
880-31900-12	C-287 2'	Total/NA	Solid	8015NM Prep	
880-31900-13	C-289 2'	Total/NA	Solid	8015NM Prep	
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 60605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-14	C-290 2'	Total/NA	Solid	8015NM Prep	
880-31900-15	C-291 2'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Prep Batch: 60605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-16	C-292 2'	Total/NA	Solid	8015NM Prep	
880-31900-17	C-293 3'	Total/NA	Solid	8015NM Prep	
880-31900-18	C-294 3'	Total/NA	Solid	8015NM Prep	
880-31900-19	C-295 3'	Total/NA	Solid	8015NM Prep	
880-31900-20	C-298 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-21	C-299 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-22	C-300 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-23	C-301 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-24	C-302 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-25	C-303 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-26	C-304 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-27	C-305 4.1'	Total/NA	Solid	8015NM Prep	
880-31900-28	C-309 2'	Total/NA	Solid	8015NM Prep	
MB 880-60605/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60605/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31900-14 MS	C-290 2'	Total/NA	Solid	8015NM Prep	
880-31900-14 MSD	C-290 2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	8015B NM	60575
880-31900-2	C-273 3'	Total/NA	Solid	8015B NM	60575
880-31900-3	C-276 3'	Total/NA	Solid	8015B NM	60575
880-31900-4	C-277 3'	Total/NA	Solid	8015B NM	60575
880-31900-5	C-280 3'	Total/NA	Solid	8015B NM	60575
880-31900-6	C-281 3'	Total/NA	Solid	8015B NM	60575
880-31900-7	C-282 4.1'	Total/NA	Solid	8015B NM	60575
880-31900-8	C-283 2'	Total/NA	Solid	8015B NM	60575
880-31900-9	C-284 2'	Total/NA	Solid	8015B NM	60575
MB 880-60575/1-A	Method Blank	Total/NA	Solid	8015B NM	60575
LCS 880-60575/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60575
LCSD 880-60575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60575

Analysis Batch: 60630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-10	C-285 2'	Total/NA	Solid	8015B NM	60604
880-31900-11	C-286 2'	Total/NA	Solid	8015B NM	60604
880-31900-12	C-287 2'	Total/NA	Solid	8015B NM	60604
880-31900-13	C-289 2'	Total/NA	Solid	8015B NM	60604
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015B NM	60604
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60604
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60604

Analysis Batch: 60637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-14	C-290 2'	Total/NA	Solid	8015B NM	60605
880-31900-15	C-291 2'	Total/NA	Solid	8015B NM	60605
880-31900-16	C-292 2'	Total/NA	Solid	8015B NM	60605
880-31900-17	C-293 3'	Total/NA	Solid	8015B NM	60605
880-31900-18	C-294 3'	Total/NA	Solid	8015B NM	60605

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 60637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-19	C-295 3'	Total/NA	Solid	8015B NM	60605
880-31900-20	C-298 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-21	C-299 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-22	C-300 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-23	C-301 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-24	C-302 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-25	C-303 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-26	C-304 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-27	C-305 4.1'	Total/NA	Solid	8015B NM	60605
880-31900-28	C-309 2'	Total/NA	Solid	8015B NM	60605
MB 880-60605/1-A	Method Blank	Total/NA	Solid	8015B NM	60605
LCS 880-60605/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60605
LCSD 880-60605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60605
880-31900-14 MS	C-290 2'	Total/NA	Solid	8015B NM	60605
880-31900-14 MSD	C-290 2'	Total/NA	Solid	8015B NM	60605

Analysis Batch: 60740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Total/NA	Solid	8015 NM	
880-31900-2	C-273 3'	Total/NA	Solid	8015 NM	
880-31900-3	C-276 3'	Total/NA	Solid	8015 NM	
880-31900-4	C-277 3'	Total/NA	Solid	8015 NM	
880-31900-5	C-280 3'	Total/NA	Solid	8015 NM	
880-31900-6	C-281 3'	Total/NA	Solid	8015 NM	
880-31900-7	C-282 4.1'	Total/NA	Solid	8015 NM	
880-31900-8	C-283 2'	Total/NA	Solid	8015 NM	
880-31900-9	C-284 2'	Total/NA	Solid	8015 NM	
880-31900-10	C-285 2'	Total/NA	Solid	8015 NM	
880-31900-11	C-286 2'	Total/NA	Solid	8015 NM	
880-31900-12	C-287 2'	Total/NA	Solid	8015 NM	
880-31900-13	C-289 2'	Total/NA	Solid	8015 NM	
880-31900-14	C-290 2'	Total/NA	Solid	8015 NM	
880-31900-15	C-291 2'	Total/NA	Solid	8015 NM	
880-31900-16	C-292 2'	Total/NA	Solid	8015 NM	
880-31900-17	C-293 3'	Total/NA	Solid	8015 NM	
880-31900-18	C-294 3'	Total/NA	Solid	8015 NM	
880-31900-19	C-295 3'	Total/NA	Solid	8015 NM	
880-31900-20	C-298 4.1'	Total/NA	Solid	8015 NM	
880-31900-21	C-299 4.1'	Total/NA	Solid	8015 NM	
880-31900-22	C-300 4.1'	Total/NA	Solid	8015 NM	
880-31900-23	C-301 4.1'	Total/NA	Solid	8015 NM	
880-31900-24	C-302 4.1'	Total/NA	Solid	8015 NM	
880-31900-25	C-303 4.1'	Total/NA	Solid	8015 NM	
880-31900-26	C-304 4.1'	Total/NA	Solid	8015 NM	
880-31900-27	C-305 4.1'	Total/NA	Solid	8015 NM	
880-31900-28	C-309 2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

HPLC/IC

Leach Batch: 59844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Soluble	Solid	DI Leach	
880-31900-2	C-273 3'	Soluble	Solid	DI Leach	
880-31900-3	C-276 3'	Soluble	Solid	DI Leach	
880-31900-4	C-277 3'	Soluble	Solid	DI Leach	
880-31900-5	C-280 3'	Soluble	Solid	DI Leach	
880-31900-6	C-281 3'	Soluble	Solid	DI Leach	
880-31900-7	C-282 4.1'	Soluble	Solid	DI Leach	
880-31900-8	C-283 2'	Soluble	Solid	DI Leach	
880-31900-9	C-284 2'	Soluble	Solid	DI Leach	
880-31900-10	C-285 2'	Soluble	Solid	DI Leach	
880-31900-11	C-286 2'	Soluble	Solid	DI Leach	
880-31900-12	C-287 2'	Soluble	Solid	DI Leach	
880-31900-13	C-289 2'	Soluble	Solid	DI Leach	
880-31900-14	C-290 2'	Soluble	Solid	DI Leach	
880-31900-15	C-291 2'	Soluble	Solid	DI Leach	
880-31900-16	C-292 2'	Soluble	Solid	DI Leach	
880-31900-17	C-293 3'	Soluble	Solid	DI Leach	
880-31900-18	C-294 3'	Soluble	Solid	DI Leach	
880-31900-19	C-295 3'	Soluble	Solid	DI Leach	
880-31900-20	C-298 4.1'	Soluble	Solid	DI Leach	
MB 880-59844/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59844/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59844/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31900-1 MS	C-272 3'	Soluble	Solid	DI Leach	
880-31900-1 MSD	C-272 3'	Soluble	Solid	DI Leach	
880-31900-11 MS	C-286 2'	Soluble	Solid	DI Leach	
880-31900-11 MSD	C-286 2'	Soluble	Solid	DI Leach	

Leach Batch: 59845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-21	C-299 4.1'	Soluble	Solid	DI Leach	
880-31900-22	C-300 4.1'	Soluble	Solid	DI Leach	
880-31900-23	C-301 4.1'	Soluble	Solid	DI Leach	
880-31900-24	C-302 4.1'	Soluble	Solid	DI Leach	
880-31900-25	C-303 4.1'	Soluble	Solid	DI Leach	
880-31900-26	C-304 4.1'	Soluble	Solid	DI Leach	
880-31900-27	C-305 4.1'	Soluble	Solid	DI Leach	
880-31900-28	C-309 2'	Soluble	Solid	DI Leach	
MB 880-59845/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59845/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59845/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31900-21 MS	C-299 4.1'	Soluble	Solid	DI Leach	
880-31900-21 MSD	C-299 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 60021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-1	C-272 3'	Soluble	Solid	300.0	59844
880-31900-2	C-273 3'	Soluble	Solid	300.0	59844
880-31900-3	C-276 3'	Soluble	Solid	300.0	59844
880-31900-4	C-277 3'	Soluble	Solid	300.0	59844
880-31900-5	C-280 3'	Soluble	Solid	300.0	59844

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 60021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-6	C-281 3'	Soluble	Solid	300.0	59844
880-31900-7	C-282 4.1'	Soluble	Solid	300.0	59844
880-31900-8	C-283 2'	Soluble	Solid	300.0	59844
880-31900-9	C-284 2'	Soluble	Solid	300.0	59844
880-31900-10	C-285 2'	Soluble	Solid	300.0	59844
880-31900-11	C-286 2'	Soluble	Solid	300.0	59844
880-31900-12	C-287 2'	Soluble	Solid	300.0	59844
880-31900-13	C-289 2'	Soluble	Solid	300.0	59844
880-31900-14	C-290 2'	Soluble	Solid	300.0	59844
880-31900-15	C-291 2'	Soluble	Solid	300.0	59844
880-31900-16	C-292 2'	Soluble	Solid	300.0	59844
880-31900-17	C-293 3'	Soluble	Solid	300.0	59844
880-31900-18	C-294 3'	Soluble	Solid	300.0	59844
880-31900-19	C-295 3'	Soluble	Solid	300.0	59844
880-31900-20	C-298 4.1'	Soluble	Solid	300.0	59844
MB 880-59844/1-A	Method Blank	Soluble	Solid	300.0	59844
LCS 880-59844/2-A	Lab Control Sample	Soluble	Solid	300.0	59844
LCSD 880-59844/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59844
880-31900-1 MS	C-272 3'	Soluble	Solid	300.0	59844
880-31900-1 MSD	C-272 3'	Soluble	Solid	300.0	59844
880-31900-11 MS	C-286 2'	Soluble	Solid	300.0	59844
880-31900-11 MSD	C-286 2'	Soluble	Solid	300.0	59844

Analysis Batch: 60056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31900-21	C-299 4.1'	Soluble	Solid	300.0	59845
880-31900-22	C-300 4.1'	Soluble	Solid	300.0	59845
880-31900-23	C-301 4.1'	Soluble	Solid	300.0	59845
880-31900-24	C-302 4.1'	Soluble	Solid	300.0	59845
880-31900-25	C-303 4.1'	Soluble	Solid	300.0	59845
880-31900-26	C-304 4.1'	Soluble	Solid	300.0	59845
880-31900-27	C-305 4.1'	Soluble	Solid	300.0	59845
880-31900-28	C-309 2'	Soluble	Solid	300.0	59845
MB 880-59845/1-A	Method Blank	Soluble	Solid	300.0	59845
LCS 880-59845/2-A	Lab Control Sample	Soluble	Solid	300.0	59845
LCSD 880-59845/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59845
880-31900-21 MS	C-299 4.1'	Soluble	Solid	300.0	59845
880-31900-21 MSD	C-299 4.1'	Soluble	Solid	300.0	59845

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-272 3'

Lab Sample ID: 880-31900-1

Date Collected: 08/09/23 11:00
Date Received: 08/10/23 09:31

Matrix: Solid

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 17:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 01:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 01:32	SMC	EET MID

Client Sample ID: C-273 3'

Lab Sample ID: 880-31900-2

Date Collected: 08/09/23 11:02
Date Received: 08/10/23 09:31

Matrix: Solid

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 18:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 02:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 01:52	SMC	EET MID

Client Sample ID: C-276 3'

Lab Sample ID: 880-31900-3

Date Collected: 08/09/23 11:04
Date Received: 08/10/23 09:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 18:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 02:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 01:58	SMC	EET MID

Client Sample ID: C-277 3'

Lab Sample ID: 880-31900-4

Date Collected: 08/09/23 11:06
Date Received: 08/10/23 09:31

Matrix: Solid

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 18:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-277 3'

Lab Sample ID: 880-31900-4
Matrix: Solid
Date Collected: 08/09/23 11:06
Date Received: 08/10/23 09:31

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			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 02:48	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:05	SMC	EET MID

Client Sample ID: C-280 3'

Lab Sample ID: 880-31900-5
Matrix: Solid
Date Collected: 08/09/23 11:08
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 19:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 03:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:12	SMC	EET MID

Client Sample ID: C-281 3'

Lab Sample ID: 880-31900-6
Matrix: Solid
Date Collected: 08/09/23 11:10
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 19:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:32	SMC	EET MID

Client Sample ID: C-282 4.1'

Lab Sample ID: 880-31900-7
Matrix: Solid
Date Collected: 08/09/23 11:12
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 20:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 03:51	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-282 4.1'

Lab Sample ID: 880-31900-7
Matrix: Solid
Date Collected: 08/09/23 11:12
Date Received: 08/10/23 09:31

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	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60021	08/12/23 02:38	SMC	EET MID

Client Sample ID: C-283 2'

Lab Sample ID: 880-31900-8
Matrix: Solid
Date Collected: 08/09/23 11:30
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 20:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 04:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:45	SMC	EET MID

Client Sample ID: C-284 2'

Lab Sample ID: 880-31900-9
Matrix: Solid
Date Collected: 08/09/23 11:32
Date Received: 08/10/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 21:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60575	08/18/23 14:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60627	08/21/23 04:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:52	SMC	EET MID

Client Sample ID: C-285 2'

Lab Sample ID: 880-31900-10
Matrix: Solid
Date Collected: 08/09/23 11:34
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 21:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/18/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 02:58	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-286 2'

Lab Sample ID: 880-31900-11
Matrix: Solid
Date Collected: 08/09/23 11:36
Date Received: 08/10/23 09:31

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	60487	08/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60486	08/17/23 23:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 03:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 03:05	SMC	EET MID

Client Sample ID: C-287 2'

Lab Sample ID: 880-31900-12
Matrix: Solid
Date Collected: 08/09/23 12:00
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 08:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 04:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 03:25	SMC	EET MID

Client Sample ID: C-289 2'

Lab Sample ID: 880-31900-13
Matrix: Solid
Date Collected: 08/09/23 12:02
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 08:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 04:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 03:31	SMC	EET MID

Client Sample ID: C-290 2'

Lab Sample ID: 880-31900-14
Matrix: Solid
Date Collected: 08/09/23 12:04
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 10:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-290 2'

Date Collected: 08/09/23 12:04
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-14

Matrix: Solid

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			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 10:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 03:51	SMC	EET MID

Client Sample ID: C-291 2'

Date Collected: 08/09/23 12:06
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-15

Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 10:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 11:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60021	08/12/23 03:58	SMC	EET MID

Client Sample ID: C-292 2'

Date Collected: 08/09/23 12:08
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 11:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 11:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 04:05	SMC	EET MID

Client Sample ID: C-293 3'

Date Collected: 08/09/23 12:10
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-17

Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 11:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 12:19	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-293 3'
Lab Sample ID: 880-31900-17
Date Collected: 08/09/23 12:10 **Matrix: Solid**
Date Received: 08/10/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 04:11	SMC	EET MID

Client Sample ID: C-294 3'
Lab Sample ID: 880-31900-18
Date Collected: 08/09/23 12:12 **Matrix: Solid**
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 11:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 12:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 04:18	SMC	EET MID

Client Sample ID: C-295 3'
Lab Sample ID: 880-31900-19
Date Collected: 08/09/23 12:14 **Matrix: Solid**
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 12:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60021	08/12/23 04:25	SMC	EET MID

Client Sample ID: C-298 4.1'
Lab Sample ID: 880-31900-20
Date Collected: 08/09/23 12:16 **Matrix: Solid**
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 12:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59844	08/10/23 11:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60021	08/12/23 04:31	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-299 4.1'

Date Collected: 08/09/23 12:18
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-21
Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 04:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60056	08/12/23 19:03	SMC	EET MID

Client Sample ID: C-300 4.1'

Date Collected: 08/09/23 12:20
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-22
Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 05:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 14:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60056	08/12/23 19:24	SMC	EET MID

Client Sample ID: C-301 4.1'

Date Collected: 08/09/23 12:22
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-23
Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 05:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 14:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60056	08/12/23 19:31	SMC	EET MID

Client Sample ID: C-302 4.1'

Date Collected: 08/09/23 12:24
Date Received: 08/10/23 09:31

Lab Sample ID: 880-31900-24
Matrix: Solid

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 05:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-302 4.1'

Lab Sample ID: 880-31900-24
Matrix: Solid
Date Collected: 08/09/23 12:24
Date Received: 08/10/23 09:31

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			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 15:14	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60056	08/12/23 19:39	SMC	EET MID

Client Sample ID: C-303 4.1'

Lab Sample ID: 880-31900-25
Matrix: Solid
Date Collected: 08/09/23 12:26
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 06:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60056	08/12/23 19:46	SMC	EET MID

Client Sample ID: C-304 4.1'

Lab Sample ID: 880-31900-26
Matrix: Solid
Date Collected: 08/09/23 12:28
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 06:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60056	08/12/23 20:07	SMC	EET MID

Client Sample ID: C-305 4.1'

Lab Sample ID: 880-31900-27
Matrix: Solid
Date Collected: 08/09/23 12:30
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 07:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 16:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Client Sample ID: C-305 4.1'

Lab Sample ID: 880-31900-27
Matrix: Solid
Date Collected: 08/09/23 12:30
Date Received: 08/10/23 09:31

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	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60056	08/12/23 20:14	SMC	EET MID

Client Sample ID: C-309 2'

Lab Sample ID: 880-31900-28
Matrix: Solid
Date Collected: 08/09/23 12:32
Date Received: 08/10/23 09:31

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	60488	08/17/23 13:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60527	08/19/23 07:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60541	08/21/23 11:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60740	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59845	08/10/23 11:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60056	08/12/23 20:21	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-31900-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-31900-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31900-1	C-272 3'	Solid	08/09/23 11:00	08/10/23 09:31
880-31900-2	C-273 3'	Solid	08/09/23 11:02	08/10/23 09:31
880-31900-3	C-276 3'	Solid	08/09/23 11:04	08/10/23 09:31
880-31900-4	C-277 3'	Solid	08/09/23 11:06	08/10/23 09:31
880-31900-5	C-280 3'	Solid	08/09/23 11:08	08/10/23 09:31
880-31900-6	C-281 3'	Solid	08/09/23 11:10	08/10/23 09:31
880-31900-7	C-282 4.1'	Solid	08/09/23 11:12	08/10/23 09:31
880-31900-8	C-283 2'	Solid	08/09/23 11:30	08/10/23 09:31
880-31900-9	C-284 2'	Solid	08/09/23 11:32	08/10/23 09:31
880-31900-10	C-285 2'	Solid	08/09/23 11:34	08/10/23 09:31
880-31900-11	C-286 2'	Solid	08/09/23 11:36	08/10/23 09:31
880-31900-12	C-287 2'	Solid	08/09/23 12:00	08/10/23 09:31
880-31900-13	C-289 2'	Solid	08/09/23 12:02	08/10/23 09:31
880-31900-14	C-290 2'	Solid	08/09/23 12:04	08/10/23 09:31
880-31900-15	C-291 2'	Solid	08/09/23 12:06	08/10/23 09:31
880-31900-16	C-292 2'	Solid	08/09/23 12:08	08/10/23 09:31
880-31900-17	C-293 3'	Solid	08/09/23 12:10	08/10/23 09:31
880-31900-18	C-294 3'	Solid	08/09/23 12:12	08/10/23 09:31
880-31900-19	C-295 3'	Solid	08/09/23 12:14	08/10/23 09:31
880-31900-20	C-298 4.1'	Solid	08/09/23 12:16	08/10/23 09:31
880-31900-21	C-299 4.1'	Solid	08/09/23 12:18	08/10/23 09:31
880-31900-22	C-300 4.1'	Solid	08/09/23 12:20	08/10/23 09:31
880-31900-23	C-301 4.1'	Solid	08/09/23 12:22	08/10/23 09:31
880-31900-24	C-302 4.1'	Solid	08/09/23 12:24	08/10/23 09:31
880-31900-25	C-303 4.1'	Solid	08/09/23 12:26	08/10/23 09:31
880-31900-26	C-304 4.1'	Solid	08/09/23 12:28	08/10/23 09:31
880-31900-27	C-305 4.1'	Solid	08/09/23 12:30	08/10/23 09:31
880-31900-28	C-309 2'	Solid	08/09/23 12:32	08/10/23 09:31

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900 No. 3105

CHAIN-OF-CUSTODY

8/22/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 8/10/2023 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG/HW

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-272 3'		8/9/23	1100	S	1				X		X		X	X	X															X		202
C-273 3'			1102																													
C-274 3'			1104																													
C-277 3'			1106																													
C-280 3'			1108																													
C-281 3'			1110																													
C-282 4.1'			1112																													
C-283 2'			1130																													
C-284 2'			1132																													
C-285 2'			1134																													
C-286 2'			1136																													
C-287 3'			1200																													
C-289 2'			1202																													
C-290 2'			1204																													
-291 2'			1206																													
TOTAL 15																																

RELINQUISHED BY:(Signature) DATE/TIME 8/10/23 0931 RECEIVED BY: (Signature)

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

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

LABORATORY: XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3.4 | 3.1 THERM#: TRE -30
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

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900 No. 3106

CHAIN-OF-CUSTODY

8/22/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 8/10/2023 PAGE 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Piney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: DSG/HW

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MNT/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-292 2'		8/9/23	1204	S	1				X		X			X	X	X																													
C-293 3'			1210																																									
C-294 3'			1212																																									
C-295 3'			1214																																									
C-298 4.1'			1216																																									
C-299 4.1'			1218																																									
C-300 4.1'			1220																																									
C-301 4.1'			1222																																									
C-302 4.1'			1224																																									
C-303 4.1'			1226																																									
C-304 4.1'			1228																																									
C-305 4.1'			1230																																									
C-309 2			1232																																									

880-31900 Chain of Custody

TOTAL 19

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/10/23 0931	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

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

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Received by OCD: 8/9/2024 11:39:35 AM

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31900-1
SDG Number: 22-0107-02

Login Number: 31900
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/28/2023 9:56:38 PM

JOB DESCRIPTION

Pliny Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-32369-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/30/2024 4:19:02 PM

my EOL

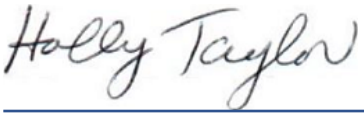
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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8/28/2023 9:56:38 PM

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

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Laboratory Job ID: 880-32369-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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
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: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Job ID: 880-32369-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32369-1

Receipt
The samples were received on 8/22/2023 10:35 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 time was -1.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-288 2' (880-32369-1), C-310 0-2' (880-32369-2), C-311 0-4.1' (880-32369-3), C-312 0-4.1 (880-32369-4), C-313 0-2' (880-32369-5), C-314 0-2' (880-32369-6), C-315 0-4.1 (880-32369-7) and C-316 0-' (880-32369-8).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61215/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-310 0-2' (880-32369-2), C-313 0-2' (880-32369-5), C-314 0-2' (880-32369-6) and C-316 0-' (880-32369-8). 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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61032 and analytical batch 880-61173 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-311 0-4.1' (880-32369-3), C-312 0-4.1 (880-32369-4), C-313 0-2' (880-32369-5), C-314 0-2' (880-32369-6), C-315 0-4.1 (880-32369-7) and C-316 0-' (880-32369-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61173/20), (CCV 880-61173/31) and (CCV 880-61173/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61031 and analytical batch 880-61042 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-288 2' (880-32369-1) and C-310 0-2' (880-32369-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61042/31), (CCV 880-61042/47), (CCV 880-61042/58), (LCS 880-61031/2-A) and (LCSD 880-61031/3-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-288 2'

Lab Sample ID: 880-32369-1
Matrix: Solid
Date Collected: 08/21/23 10:50
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 06:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 06:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 06:04	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/26/23 17:52	08/28/23 06:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 06:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/26/23 17:52	08/28/23 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/26/23 17:52*	*08/28/23 06:04*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/26/23 17:52*	*08/28/23 06:04*	*1*

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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/28/23 22:20	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	<50.3	U	50.3		mg/Kg		08/24/23 16:34	08/26/23 05:11	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/24/23 16:34	08/26/23 05:11	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/24/23 16:34	08/26/23 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*150*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/26/23 05:11*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/24/23 16:34*	*08/26/23 05:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**593**		4.98		mg/Kg			08/25/23 19:56	1

Client Sample ID: C-310 0-2'

Lab Sample ID: 880-32369-2
Matrix: Solid
Date Collected: 08/21/23 10:52
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 06:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 06:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 06:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/26/23 17:52	08/28/23 06:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 06:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/23 17:52	08/28/23 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*08/26/23 17:52*	*08/28/23 06:30*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/26/23 17:52*	*08/28/23 06:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-310 0-2'

Lab Sample ID: 880-32369-2
Matrix: Solid
Date Collected: 08/21/23 10:52
Date Received: 08/22/23 10:35

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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2140**		50.4		mg/Kg			08/28/23 22:20	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	<50.4	U	50.4		mg/Kg		08/24/23 16:34	08/26/23 05:32	1
Diesel Range Organics (Over C10-C28)	**2140**		50.4		mg/Kg		08/24/23 16:34	08/26/23 05:32	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/24/23 16:34	08/26/23 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/26/23 05:32*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*08/24/23 16:34*	*08/26/23 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26500**		250		mg/Kg			08/25/23 20:17	50

Client Sample ID: C-311 0-4.1'

Lab Sample ID: 880-32369-3
Matrix: Solid
Date Collected: 08/21/23 10:54
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 06:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/26/23 17:52	08/28/23 06:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/26/23 17:52	08/28/23 06:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/26/23 17:52	08/28/23 06:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/26/23 17:52	08/28/23 06:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/26/23 17:52	08/28/23 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/26/23 17:52*	*08/28/23 06:57*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/26/23 17:52*	*08/28/23 06:57*	*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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1950**		50.5		mg/Kg			08/28/23 22:16	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	<50.5	U	50.5		mg/Kg		08/24/23 16:39	08/26/23 18:17	1
Diesel Range Organics (Over C10-C28)	**1950**		50.5		mg/Kg		08/24/23 16:39	08/26/23 18:17	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-311 0-4.1' Lab Sample ID: 880-32369-3

Date Collected: 08/21/23 10:54 **Matrix: Solid**
Date Received: 08/22/23 10:35

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)	<50.5	U	50.5		mg/Kg		08/24/23 16:39	08/26/23 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*167*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 18:17*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*08/24/23 16:39*	*08/26/23 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11700**		99.8		mg/Kg			08/25/23 20:24	20

Client Sample ID: C-312 0-4.1 Lab Sample ID: 880-32369-4

Date Collected: 08/21/23 10:56 **Matrix: Solid**
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 07:24	1
Toluene	**0.0105**		0.00198		mg/Kg		08/26/23 17:52	08/28/23 07:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 07:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/26/23 17:52	08/28/23 07:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 07:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/26/23 17:52	08/28/23 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/26/23 17:52*	*08/28/23 07:24*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/26/23 17:52*	*08/28/23 07:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0105**		0.00396		mg/Kg			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**874**		50.5		mg/Kg			08/28/23 22:16	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	<50.5	U	50.5		mg/Kg		08/24/23 16:39	08/26/23 18:38	1
Diesel Range Organics (Over C10-C28)	**874**		50.5		mg/Kg		08/24/23 16:39	08/26/23 18:38	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/24/23 16:39	08/26/23 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 18:38*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*08/24/23 16:39*	*08/26/23 18:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10100**		100		mg/Kg			08/25/23 20:31	20

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-313 0-2'

Lab Sample ID: 880-32369-5
Matrix: Solid
Date Collected: 08/21/23 10:58
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 07:52	1
Toluene	**0.00740**		0.00202		mg/Kg		08/26/23 17:52	08/28/23 07:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/26/23 17:52	08/28/23 07:52	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		08/26/23 17:52	08/28/23 07:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/26/23 17:52	08/28/23 07:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/26/23 17:52	08/28/23 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/26/23 17:52*	*08/28/23 07:52*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/26/23 17:52*	*08/28/23 07:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00740**		0.00403		mg/Kg			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**774**		49.8		mg/Kg			08/28/23 22:16	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		08/24/23 16:39	08/26/23 18:59	1
Diesel Range Organics (Over C10-C28)	**774**		49.8		mg/Kg		08/24/23 16:39	08/26/23 18:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/24/23 16:39	08/26/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*165*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 18:59*	*1*
o-Terphenyl (Surr)	*131*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8900**		49.7		mg/Kg			08/25/23 20:39	10

Client Sample ID: C-314 0-2'

Lab Sample ID: 880-32369-6
Matrix: Solid
Date Collected: 08/21/23 11:00
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 08:20	1
Toluene	**0.00502**		0.00201		mg/Kg		08/26/23 17:52	08/28/23 08:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/26/23 17:52	08/28/23 08:20	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/26/23 17:52	08/28/23 08:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/26/23 17:52	08/28/23 08:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/26/23 17:52	08/28/23 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*08/26/23 17:52*	*08/28/23 08:20*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/26/23 17:52*	*08/28/23 08:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-314 0-2'

Lab Sample ID: 880-32369-6
Matrix: Solid
Date Collected: 08/21/23 11:00
Date Received: 08/22/23 10:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00502**		0.00402		mg/Kg			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1640**		49.9		mg/Kg			08/28/23 22:16	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		08/24/23 16:39	08/26/23 19:21	1
Diesel Range Organics (Over C10-C28)	**1640**		49.9		mg/Kg		08/24/23 16:39	08/26/23 19:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/23 16:39	08/26/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*176*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 19:21*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*08/24/23 16:39*	*08/26/23 19:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25400**		248		mg/Kg			08/25/23 21:00	50

Client Sample ID: C-315 0-4.1

Lab Sample ID: 880-32369-7
Matrix: Solid
Date Collected: 08/21/23 11:02
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 08:47	1
Toluene	**0.00392**		0.00198		mg/Kg		08/26/23 17:52	08/28/23 08:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 08:47	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		08/26/23 17:52	08/28/23 08:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/26/23 17:52	08/28/23 08:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/26/23 17:52	08/28/23 08:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/26/23 17:52*	*08/28/23 08:47*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*08/26/23 17:52*	*08/28/23 08:47*	*1*

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			08/28/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/28/23 22:16	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	<49.7	U	49.7		mg/Kg		08/24/23 16:39	08/26/23 19:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/24/23 16:39	08/26/23 19:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

Client Sample ID: C-315 0-4.1 Lab Sample ID: 880-32369-7

Date Collected: 08/21/23 11:02 **Matrix: Solid**
Date Received: 08/22/23 10:35

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)	<49.7	U	49.7		mg/Kg		08/24/23 16:39	08/26/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*168*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 19:42*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 19:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**167**		4.96		mg/Kg			08/25/23 21:07	1

Client Sample ID: C-316 0-' Lab Sample ID: 880-32369-8

Date Collected: 08/21/23 11:04 **Matrix: Solid**
Date Received: 08/22/23 10:35

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		08/26/23 17:52	08/28/23 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 09:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/26/23 17:52	08/28/23 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/28/23 09:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/26/23 17:52	08/28/23 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*08/26/23 17:52*	*08/28/23 09:13*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/26/23 17:52*	*08/28/23 09:13*	*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			08/28/23 12:51	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			08/28/23 22:16	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		08/24/23 16:39	08/26/23 20:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/24/23 16:39	08/26/23 20:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/23 16:39	08/26/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*08/24/23 16:39*	*08/26/23 20:03*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*08/24/23 16:39*	*08/26/23 20:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8650**		50.0		mg/Kg			08/25/23 21:14	10

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-32369-1	C-288 2'	120	81										
880-32369-2	C-310 0-2'	134 S1+	91										
880-32369-3	C-311 0-4.1'	124	90										
880-32369-4	C-312 0-4.1	126	84										
880-32369-5	C-313 0-2'	135 S1+	80										
880-32369-6	C-314 0-2'	138 S1+	88										
880-32369-7	C-315 0-4.1	127	83										
880-32369-8	C-316 0-'	155 S1+	89										
LCS 880-61215/1-A	Lab Control Sample	125	80										
LCSD 880-61215/2-A	Lab Control Sample Dup	151 S1+	100										
MB 880-61215/5-A	Method Blank	84	76										
MB 880-61216/5-A	Method Blank	78	78										

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)										
880-32369-1	C-288 2'	150 S1+	111										
880-32369-2	C-310 0-2'	146 S1+	100										
880-32369-3	C-311 0-4.1'	167 S1+	127										
880-32369-4	C-312 0-4.1	156 S1+	120										
880-32369-5	C-313 0-2'	165 S1+	131 S1+										
880-32369-6	C-314 0-2'	176 S1+	129										
880-32369-7	C-315 0-4.1	168 S1+	136 S1+										
880-32369-8	C-316 0-'	145 S1+	113										
LCS 880-61031/2-A	Lab Control Sample	137 S1+	123										
LCS 880-61032/2-A	Lab Control Sample	119	107										
LCSD 880-61031/3-A	Lab Control Sample Dup	143 S1+	115										
LCSD 880-61032/3-A	Lab Control Sample Dup	122	111										
MB 880-61031/1-A	Method Blank	254 S1+	200 S1+										
MB 880-61032/1-A	Method Blank	240 S1+	189 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61215/5-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61215

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/27/23 23:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/27/23 23:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/27/23 23:17	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/26/23 17:52	08/27/23 23:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 17:52	08/27/23 23:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/23 17:52	08/27/23 23:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/26/23 17:52*	*08/27/23 23:17*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*08/26/23 17:52*	*08/27/23 23:17*	*1*

Lab Sample ID: LCS 880-61215/1-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08915		mg/Kg		89	70 - 130		
Toluene			0.100	0.1012		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.09858		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.1880		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09651		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-61215/2-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61215

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079		mg/Kg		108	70 - 130	19	35
Toluene			0.100	0.1117		mg/Kg		112	70 - 130	10	35
Ethylbenzene			0.100	0.1077		mg/Kg		108	70 - 130	9	35
m,p-Xylenes			0.200	0.1997		mg/Kg		100	70 - 130	6	35
o-Xylene			0.100	0.1002		mg/Kg		100	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-61216/5-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61216

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-61216/5-A
Matrix: Solid
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61216

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/26/23 18:08*	*08/27/23 09:42*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/26/23 18:08*	*08/27/23 09:42*	*1*

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

Lab Sample ID: MB 880-61031/1-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61031

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		08/24/23 16:34	08/25/23 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 16:34	08/25/23 20:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 16:34	08/25/23 20:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*254*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/25/23 20:41*	*1*
o-Terphenyl (Surr)	*200*	*S1+*	*70 - 130*	*08/24/23 16:34*	*08/25/23 20:41*	*1*

Lab Sample ID: LCS 880-61031/2-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1036		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-61031/3-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1019		mg/Kg		102	70 - 130	3	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

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

Lab Sample ID: LCSD 880-61031/3-A
Matrix: Solid
Analysis Batch: 61042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61031

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	143	S1+	70 - 130
o-Terphenyl (Surr)	115		70 - 130

Lab Sample ID: MB 880-61032/1-A
Matrix: Solid
Analysis Batch: 61173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61032

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		08/24/23 16:39	08/26/23 10:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 16:39	08/26/23 10:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 16:39	08/26/23 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	240	S1+	70 - 130	08/24/23 16:39	08/26/23 10:00	1
o-Terphenyl (Surr)	189	S1+	70 - 130	08/24/23 16:39	08/26/23 10:00	1

Lab Sample ID: LCS 880-61032/2-A
Matrix: Solid
Analysis Batch: 61173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61032

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1085		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	880.5		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	119		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-61032/3-A
Matrix: Solid
Analysis Batch: 61173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61032

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1101		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	912.3		mg/Kg		91	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	111		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60951/1-A
Matrix: Solid
Analysis Batch: 61026

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			08/25/23 19:34	1

Lab Sample ID: LCS 880-60951/2-A
Matrix: Solid
Analysis Batch: 61026

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-60951/3-A
Matrix: Solid
Analysis Batch: 61026

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	246.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-32369-1 MS
Matrix: Solid
Analysis Batch: 61026

Client Sample ID: C-288 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	593		249	817.3		mg/Kg		90	90 - 110		

Lab Sample ID: 880-32369-1 MSD
Matrix: Solid
Analysis Batch: 61026

Client Sample ID: C-288 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	593		249	818.1		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

GC VOA

Analysis Batch: 61206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	8021B	61215
880-32369-2	C-310 0-2'	Total/NA	Solid	8021B	61215
880-32369-3	C-311 0-4.1'	Total/NA	Solid	8021B	61215
880-32369-4	C-312 0-4.1	Total/NA	Solid	8021B	61215
880-32369-5	C-313 0-2'	Total/NA	Solid	8021B	61215
880-32369-6	C-314 0-2'	Total/NA	Solid	8021B	61215
880-32369-7	C-315 0-4.1	Total/NA	Solid	8021B	61215
880-32369-8	C-316 0-'	Total/NA	Solid	8021B	61215
MB 880-61215/5-A	Method Blank	Total/NA	Solid	8021B	61215
MB 880-61216/5-A	Method Blank	Total/NA	Solid	8021B	61216
LCS 880-61215/1-A	Lab Control Sample	Total/NA	Solid	8021B	61215
LCSD 880-61215/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61215

Prep Batch: 61215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	5035	
880-32369-2	C-310 0-2'	Total/NA	Solid	5035	
880-32369-3	C-311 0-4.1'	Total/NA	Solid	5035	
880-32369-4	C-312 0-4.1	Total/NA	Solid	5035	
880-32369-5	C-313 0-2'	Total/NA	Solid	5035	
880-32369-6	C-314 0-2'	Total/NA	Solid	5035	
880-32369-7	C-315 0-4.1	Total/NA	Solid	5035	
880-32369-8	C-316 0-'	Total/NA	Solid	5035	
MB 880-61215/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61215/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61215/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 61216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-61216/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 61313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	Total BTEX	
880-32369-2	C-310 0-2'	Total/NA	Solid	Total BTEX	
880-32369-3	C-311 0-4.1'	Total/NA	Solid	Total BTEX	
880-32369-4	C-312 0-4.1	Total/NA	Solid	Total BTEX	
880-32369-5	C-313 0-2'	Total/NA	Solid	Total BTEX	
880-32369-6	C-314 0-2'	Total/NA	Solid	Total BTEX	
880-32369-7	C-315 0-4.1	Total/NA	Solid	Total BTEX	
880-32369-8	C-316 0-'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	8015NM Prep	
880-32369-2	C-310 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

GC Semi VOA

Prep Batch: 61032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-3	C-311 0-4.1'	Total/NA	Solid	8015NM Prep	
880-32369-4	C-312 0-4.1	Total/NA	Solid	8015NM Prep	
880-32369-5	C-313 0-2'	Total/NA	Solid	8015NM Prep	
880-32369-6	C-314 0-2'	Total/NA	Solid	8015NM Prep	
880-32369-7	C-315 0-4.1	Total/NA	Solid	8015NM Prep	
880-32369-8	C-316 0-'	Total/NA	Solid	8015NM Prep	
MB 880-61032/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61032/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61032/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	8015B NM	61031
880-32369-2	C-310 0-2'	Total/NA	Solid	8015B NM	61031
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015B NM	61031
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61031
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61031

Analysis Batch: 61173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-3	C-311 0-4.1'	Total/NA	Solid	8015B NM	61032
880-32369-4	C-312 0-4.1	Total/NA	Solid	8015B NM	61032
880-32369-5	C-313 0-2'	Total/NA	Solid	8015B NM	61032
880-32369-6	C-314 0-2'	Total/NA	Solid	8015B NM	61032
880-32369-7	C-315 0-4.1	Total/NA	Solid	8015B NM	61032
880-32369-8	C-316 0-'	Total/NA	Solid	8015B NM	61032
MB 880-61032/1-A	Method Blank	Total/NA	Solid	8015B NM	61032
LCS 880-61032/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61032
LCSD 880-61032/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61032

Analysis Batch: 61397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Total/NA	Solid	8015 NM	
880-32369-2	C-310 0-2'	Total/NA	Solid	8015 NM	
880-32369-3	C-311 0-4.1'	Total/NA	Solid	8015 NM	
880-32369-4	C-312 0-4.1	Total/NA	Solid	8015 NM	
880-32369-5	C-313 0-2'	Total/NA	Solid	8015 NM	
880-32369-6	C-314 0-2'	Total/NA	Solid	8015 NM	
880-32369-7	C-315 0-4.1	Total/NA	Solid	8015 NM	
880-32369-8	C-316 0-'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Soluble	Solid	DI Leach	
880-32369-2	C-310 0-2'	Soluble	Solid	DI Leach	
880-32369-3	C-311 0-4.1'	Soluble	Solid	DI Leach	
880-32369-4	C-312 0-4.1	Soluble	Solid	DI Leach	
880-32369-5	C-313 0-2'	Soluble	Solid	DI Leach	
880-32369-6	C-314 0-2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

HPLC/IC (Continued)

Leach Batch: 60951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-7	C-315 0-4.1	Soluble	Solid	DI Leach	
880-32369-8	C-316 0-'	Soluble	Solid	DI Leach	
MB 880-60951/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60951/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60951/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32369-1 MS	C-288 2'	Soluble	Solid	DI Leach	
880-32369-1 MSD	C-288 2'	Soluble	Solid	DI Leach	

Analysis Batch: 61026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32369-1	C-288 2'	Soluble	Solid	300.0	60951
880-32369-2	C-310 0-2'	Soluble	Solid	300.0	60951
880-32369-3	C-311 0-4.1'	Soluble	Solid	300.0	60951
880-32369-4	C-312 0-4.1	Soluble	Solid	300.0	60951
880-32369-5	C-313 0-2'	Soluble	Solid	300.0	60951
880-32369-6	C-314 0-2'	Soluble	Solid	300.0	60951
880-32369-7	C-315 0-4.1	Soluble	Solid	300.0	60951
880-32369-8	C-316 0-'	Soluble	Solid	300.0	60951
MB 880-60951/1-A	Method Blank	Soluble	Solid	300.0	60951
LCS 880-60951/2-A	Lab Control Sample	Soluble	Solid	300.0	60951
LCSD 880-60951/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60951
880-32369-1 MS	C-288 2'	Soluble	Solid	300.0	60951
880-32369-1 MSD	C-288 2'	Soluble	Solid	300.0	60951

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-288 2'

Lab Sample ID: 880-32369-1
Matrix: Solid
Date Collected: 08/21/23 10:50
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 06:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 05:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61026	08/25/23 19:56	CH	EET MID

Client Sample ID: C-310 0-2'

Lab Sample ID: 880-32369-2
Matrix: Solid
Date Collected: 08/21/23 10:52
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 06:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 05:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	61026	08/25/23 20:17	CH	EET MID

Client Sample ID: C-311 0-4.1'

Lab Sample ID: 880-32369-3
Matrix: Solid
Date Collected: 08/21/23 10:54
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 06:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 18:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	61026	08/25/23 20:24	CH	EET MID

Client Sample ID: C-312 0-4.1

Lab Sample ID: 880-32369-4
Matrix: Solid
Date Collected: 08/21/23 10:56
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 07:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-312 0-4.1

Lab Sample ID: 880-32369-4
Matrix: Solid
Date Collected: 08/21/23 10:56
Date Received: 08/22/23 10:35

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			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	61026	08/25/23 20:31	CH	EET MID

Client Sample ID: C-313 0-2'

Lab Sample ID: 880-32369-5
Matrix: Solid
Date Collected: 08/21/23 10:58
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 07:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 18:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	61026	08/25/23 20:39	CH	EET MID

Client Sample ID: C-314 0-2'

Lab Sample ID: 880-32369-6
Matrix: Solid
Date Collected: 08/21/23 11:00
Date Received: 08/22/23 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 08:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	61026	08/25/23 21:00	CH	EET MID

Client Sample ID: C-315 0-4.1

Lab Sample ID: 880-32369-7
Matrix: Solid
Date Collected: 08/21/23 11:02
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 08:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 19:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Client Sample ID: C-315 0-4.1

Lab Sample ID: 880-32369-7
Matrix: Solid
Date Collected: 08/21/23 11:02
Date Received: 08/22/23 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61026	08/25/23 21:07	CH	EET MID

Client Sample ID: C-316 0-'

Lab Sample ID: 880-32369-8
Matrix: Solid
Date Collected: 08/21/23 11:04
Date Received: 08/22/23 10:35

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	61215	08/26/23 17:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/28/23 09:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61313	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61397	08/28/23 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61032	08/24/23 16:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61173	08/26/23 20:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60951	08/23/23 20:06	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	61026	08/25/23 21:14	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-32369-1
Project/Site: Pliny Elder SDG: 22-0107-02

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: Pliny Elder

Job ID: 880-32369-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32369-1	C-288 2'	Solid	08/21/23 10:50	08/22/23 10:35
880-32369-2	C-310 0-2'	Solid	08/21/23 10:52	08/22/23 10:35
880-32369-3	C-311 0-4.1'	Solid	08/21/23 10:54	08/22/23 10:35
880-32369-4	C-312 0-4.1	Solid	08/21/23 10:56	08/22/23 10:35
880-32369-5	C-313 0-2'	Solid	08/21/23 10:58	08/22/23 10:35
880-32369-6	C-314 0-2'	Solid	08/21/23 11:00	08/22/23 10:35
880-32369-7	C-315 0-4.1	Solid	08/21/23 11:02	08/22/23 10:35
880-32369-8	C-316 0-'	Solid	08/21/23 11:04	08/22/23 10:35

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8/28/2023

880-32369 Chain of Custody

No. 3126

USTODY

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Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 8/22/2023 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Pliny Elder

LAI PROJECT #: 22-0107-02 COLLECTOR:

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH | ICE | UNPRESSERVED

ANALYSES: BTEX ☑ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☑ | DIESEL - MOD 8015 ☑ | OIL - MOD 8015 ☑ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH	ICE	UNPRESSERVED	BTEX ☑ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑	OIL - MOD 8015 ☑	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-288 2'		8/22/23	1050	S	1				X		Y		X	X	X												X			
C-310 0-2'			1052																											
C-311 0-4.1'			1054																											
C-312 0-4.1			1056																											
C-313 0-2'			1058																											
C-314 0-2'			1100																											
C-315 0-4.1			1102																											
C-316 0-3			1104																											

TOTAL 8

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
David Hajmo	8/22/23	[signature] 8.22.23 1035
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.2/1.7 THERM#: 189
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 8/9/2024 11:39:35 AM

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-32369-1
SDG Number: 22-0107-02

Login Number: 32369
List Number: 1
Creator: Rodriguez, Leticia

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Robert Nelson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 10/10/2023 4:33:52 PM

JOB DESCRIPTION

Plihey Elder
SDG NUMBER 22-0107-02

JOB NUMBER

880-33930-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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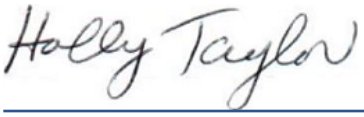
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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10/10/2023 4:33:52 PM

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

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Laboratory Job ID: 880-33930-1
SDG: 22-0107-02

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high 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. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Job ID: 880-33930-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-33930-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/3/2023 8:45 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 time was 1.0°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: Surrogate recovery for the following samples were outside control limits: C-289, 4.1' (880-33930-7). 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 880-64194 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-64194/51).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-64197 and analytical batch 880-64194 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-296, 4.1' (880-33930-9). 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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63901 and analytical batch 880-63913 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-63901/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-271, 4.1' (880-33930-1), C-274, 4.1' (880-33930-2), C-275, 4.1' (880-33930-3), C-278, 4.1' (880-33930-4) and C-279, 4.1' (880-33930-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63774 and 880-63937 and analytical batch 880-64070 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64070/31), (LCS 880-63774/2-A) and (LCS 880-63937/2-A). Evidence of matrix interferences is not obvious.

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Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Job ID: 880-33930-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-291, 4.1' (880-33930-8), C-296, 4.1' (880-33930-9), C-297, 4.1' (880-33930-10), (880-33930-A-8-D MS) and (880-33930-A-8-E MSD). 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-63961 and analytical batch 880-64136 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.The associated samples are: C-306, 4.1' (880-33930-11), (880-33930-A-11-F MS) and (880-33930-A-11-G MSD).

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-271, 4.1'

Date Collected: 10/02/23 10:30
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		10/03/23 15:11	10/09/23 17:58	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/03/23 15:11	10/09/23 17:58	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/03/23 15:11	10/09/23 17:58	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		10/03/23 15:11	10/09/23 17:58	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/03/23 15:11	10/09/23 17:58	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/03/23 15:11	10/09/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*10/03/23 15:11*	*10/09/23 17:58*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*10/03/23 15:11*	*10/09/23 17:58*	*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			10/09/23 17:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**142**		50.3		mg/Kg			10/04/23 17:09	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	<50.3	U	50.3		mg/Kg		10/03/23 16:26	10/04/23 17:09	1
Diesel Range Organics (Over C10-C28)	**142**		50.3		mg/Kg		10/03/23 16:26	10/04/23 17:09	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/03/23 16:26	10/04/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 17:09*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*10/03/23 16:26*	*10/04/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**985**		5.00		mg/Kg			10/06/23 06:30	1

Client Sample ID: C-274, 4.1'

Date Collected: 10/02/23 10:35
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-2
Matrix: Solid

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		10/03/23 15:11	10/09/23 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 11:26	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/03/23 15:11	10/09/23 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 11:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/03/23 15:11	10/09/23 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/03/23 15:11*	*10/09/23 11:26*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*10/03/23 15:11*	*10/09/23 11:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-274, 4.1'

Date Collected: 10/02/23 10:35
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-2
Matrix: Solid

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			10/09/23 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**156**		49.7		mg/Kg			10/04/23 17:31	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	<49.7	U	49.7		mg/Kg		10/03/23 16:26	10/04/23 17:31	1
Diesel Range Organics (Over C10-C28)	**156**		49.7		mg/Kg		10/03/23 16:26	10/04/23 17:31	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/03/23 16:26	10/04/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 17:31*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 17:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1040**		4.98		mg/Kg			10/06/23 06:50	1

Client Sample ID: C-275, 4.1'

Date Collected: 10/02/23 10:40
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-3
Matrix: Solid

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		10/03/23 15:11	10/09/23 11:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 11:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 11:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 11:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 11:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/03/23 15:11*	*10/09/23 11:47*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/03/23 15:11*	*10/09/23 11:47*	*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			10/09/23 11:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			10/04/23 17:53	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	<50.4	U	50.4		mg/Kg		10/03/23 16:26	10/04/23 17:53	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		10/03/23 16:26	10/04/23 17:53	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Client Sample ID: C-275, 4.1'
Lab Sample ID: 880-33930-3
Date Collected: 10/02/23 10:40 **Matrix: Solid**
Date Received: 10/03/23 08:45

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)	<50.4	U	50.4		mg/Kg		10/03/23 16:26	10/04/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 17:53*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*10/03/23 16:26*	*10/04/23 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		4.95		mg/Kg			10/06/23 06:56	1

Client Sample ID: C-278, 4.1'
Lab Sample ID: 880-33930-4
Date Collected: 10/02/23 10:45 **Matrix: Solid**
Date Received: 10/03/23 08:45

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		10/03/23 15:11	10/09/23 12:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 12:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 12:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 12:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 12:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*10/03/23 15:11*	*10/09/23 12:07*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/23 15:11*	*10/09/23 12:07*	*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			10/09/23 12:07	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			10/04/23 18:15	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		10/03/23 16:26	10/04/23 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/23 16:26	10/04/23 18:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/23 16:26	10/04/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 18:15*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*10/03/23 16:26*	*10/04/23 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		4.97		mg/Kg			10/06/23 07:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-279, 4.1'

Lab Sample ID: 880-33930-5
Matrix: Solid
Date Collected: 10/02/23 10:50
Date Received: 10/03/23 08:45

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		10/09/23 09:34	10/10/23 11:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 11:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 11:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/09/23 09:34	10/10/23 11:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 11:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/09/23 09:34	10/10/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/09/23 09:34*	*10/10/23 11:22*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*10/09/23 09:34*	*10/10/23 11:22*	*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			10/10/23 11:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/04/23 18:37	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	<49.6	U	49.6		mg/Kg		10/03/23 16:26	10/04/23 18:37	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/03/23 16:26	10/04/23 18:37	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/03/23 16:26	10/04/23 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*167*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 18:37*	*1*
o-Terphenyl (Surr)	*143*	*S1+*	*70 - 130*	*10/03/23 16:26*	*10/04/23 18:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		5.03		mg/Kg			10/06/23 07:23	1

Client Sample ID: C-283, 4.1'

Lab Sample ID: 880-33930-6
Matrix: Solid
Date Collected: 10/02/23 10:55
Date Received: 10/03/23 08:45

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		10/09/23 09:34	10/10/23 11:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 11:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 11:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/09/23 09:34	10/10/23 11:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 11:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/09/23 09:34	10/10/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/09/23 09:34*	*10/10/23 11:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/09/23 09:34*	*10/10/23 11:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-283, 4.1'

Date Collected: 10/02/23 10:55
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-6
Matrix: Solid

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			10/10/23 11:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			10/06/23 18:08	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	<49.5	U	49.5		mg/Kg		10/03/23 15:53	10/06/23 18:08	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		10/03/23 15:53	10/06/23 18:08	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/03/23 15:53	10/06/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*10/03/23 15:53*	*10/06/23 18:08*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*10/03/23 15:53*	*10/06/23 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**597**		5.02		mg/Kg			10/06/23 07:29	1

Client Sample ID: C-289, 4.1'

Date Collected: 10/02/23 11:00
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-7
Matrix: Solid

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		10/09/23 09:34	10/10/23 12:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/09/23 09:34	10/10/23 12:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/09/23 09:34	10/10/23 12:14	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		10/09/23 09:34	10/10/23 12:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/09/23 09:34	10/10/23 12:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/09/23 09:34	10/10/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*10/09/23 09:34*	*10/10/23 12:14*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*10/09/23 09:34*	*10/10/23 12:14*	*1*

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			10/10/23 12:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/06/23 18:30	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	<50.3	U	50.3		mg/Kg		10/03/23 15:53	10/06/23 18:30	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/03/23 15:53	10/06/23 18:30	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Client Sample ID: C-289, 4.1'
Lab Sample ID: 880-33930-7
Date Collected: 10/02/23 11:00 **Matrix: Solid**
Date Received: 10/03/23 08:45

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)	<50.3	U	50.3		mg/Kg		10/03/23 15:53	10/06/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*10/03/23 15:53*	*10/06/23 18:30*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*10/03/23 15:53*	*10/06/23 18:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**504**		4.98		mg/Kg			10/06/23 07:36	1

Client Sample ID: C-291, 4.1'
Lab Sample ID: 880-33930-8
Date Collected: 10/02/23 11:05 **Matrix: Solid**
Date Received: 10/03/23 08:45

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		10/09/23 09:34	10/10/23 12:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 12:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 12:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/09/23 09:34	10/10/23 12:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/09/23 09:34	10/10/23 12:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/09/23 09:34	10/10/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/09/23 09:34*	*10/10/23 12:40*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*10/09/23 09:34*	*10/10/23 12:40*	*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			10/10/23 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/06/23 20:20	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	<49.6	U	49.6		mg/Kg		10/04/23 09:49	10/06/23 20:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/04/23 09:49	10/06/23 20:20	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/04/23 09:49	10/06/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 20:20*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*10/04/23 09:49*	*10/06/23 20:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**555**		4.98		mg/Kg			10/06/23 07:43	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-296, 4.1'

Lab Sample ID: 880-33930-9
Matrix: Solid
Date Collected: 10/02/23 11:10
Date Received: 10/03/23 08:45

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		10/09/23 09:34	10/10/23 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 13:07	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/09/23 09:34	10/10/23 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 13:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/09/23 09:34	10/10/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*10/09/23 09:34*	*10/10/23 13:07*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/09/23 09:34*	*10/10/23 13:07*	*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			10/10/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**295**		50.5		mg/Kg			10/06/23 21:26	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	<50.5	U	50.5		mg/Kg		10/04/23 09:49	10/06/23 21:26	1
Diesel Range Organics (Over C10-C28)	**295**		50.5		mg/Kg		10/04/23 09:49	10/06/23 21:26	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/04/23 09:49	10/06/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*164*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 21:26*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**905**		5.04		mg/Kg			10/06/23 07:49	1

Client Sample ID: C-297, 4.1'

Lab Sample ID: 880-33930-10
Matrix: Solid
Date Collected: 10/02/23 11:15
Date Received: 10/03/23 08:45

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		10/09/23 09:34	10/10/23 13:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 13:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 13:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/09/23 09:34	10/10/23 13:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/09/23 09:34	10/10/23 13:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/09/23 09:34	10/10/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/09/23 09:34*	*10/10/23 13:33*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*10/09/23 09:34*	*10/10/23 13:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-297, 4.1'

Date Collected: 10/02/23 11:15
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-10
Matrix: Solid

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			10/10/23 13:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**231**		50.0		mg/Kg			10/06/23 21:48	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		10/04/23 09:49	10/06/23 21:48	1
Diesel Range Organics (Over C10-C28)	**231**		50.0		mg/Kg		10/04/23 09:49	10/06/23 21:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/23 09:49	10/06/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 21:48*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*10/04/23 09:49*	*10/06/23 21:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**746**		4.99		mg/Kg			10/06/23 07:56	1

Client Sample ID: C-306, 4.1'

Date Collected: 10/02/23 11:20
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-11
Matrix: Solid

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		10/03/23 15:11	10/09/23 15:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 15:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 15:34	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/03/23 15:11	10/09/23 15:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 15:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/03/23 15:11	10/09/23 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*10/03/23 15:11*	*10/09/23 15:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/23 15:11*	*10/09/23 15:34*	*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			10/09/23 15:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**239**		49.7		mg/Kg			10/06/23 22:10	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	<49.7	U	49.7		mg/Kg		10/04/23 09:49	10/06/23 22:10	1
Diesel Range Organics (Over C10-C28)	**239**		49.7		mg/Kg		10/04/23 09:49	10/06/23 22:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

Client Sample ID: C-306, 4.1'
Lab Sample ID: 880-33930-11
Date Collected: 10/02/23 11:20 **Matrix: Solid**
Date Received: 10/03/23 08:45

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)	<49.7	U	49.7		mg/Kg		10/04/23 09:49	10/06/23 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:10*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**776**	**F1**	5.05		mg/Kg			10/06/23 18:02	1

Client Sample ID: C-307, 4.1'
Lab Sample ID: 880-33930-12
Date Collected: 10/02/23 11:25 **Matrix: Solid**
Date Received: 10/03/23 08:45

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		10/03/23 15:11	10/09/23 15:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 15:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 15:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 15:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 15:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*10/03/23 15:11*	*10/09/23 15:55*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/03/23 15:11*	*10/09/23 15:55*	*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			10/09/23 15:55	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			10/06/23 22:33	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	<50.1	U	50.1		mg/Kg		10/04/23 09:49	10/06/23 22:33	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/04/23 09:49	10/06/23 22:33	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/04/23 09:49	10/06/23 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:33*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.0**		4.98		mg/Kg			10/06/23 18:22	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-308, 4.1'

Date Collected: 10/02/23 11:30
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-13

Matrix: Solid

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		10/03/23 15:11	10/09/23 16:15	1
Toluene	**0.00255**		0.00199		mg/Kg		10/03/23 15:11	10/09/23 16:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 16:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 16:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/23 15:11	10/09/23 16:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/23 15:11	10/09/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/03/23 15:11*	*10/09/23 16:15*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*10/03/23 15:11*	*10/09/23 16:15*	*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			10/09/23 16:15	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			10/06/23 22:55	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		10/04/23 09:49	10/06/23 22:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/04/23 09:49	10/06/23 22:55	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/04/23 09:49	10/06/23 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:55*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*10/04/23 09:49*	*10/06/23 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		5.01		mg/Kg			10/06/23 18:29	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-33930-1	C-271, 4.1'	77	71										
880-33930-1 MS	C-271, 4.1'	120	115										
880-33930-1 MSD	C-271, 4.1'	114	101										
880-33930-2	C-274, 4.1'	86	74										
880-33930-3	C-275, 4.1'	90	78										
880-33930-4	C-278, 4.1'	75	92										
880-33930-5	C-279, 4.1'	107	113										
880-33930-6	C-283, 4.1'	119	100										
880-33930-7	C-289, 4.1'	138 S1+	127										
880-33930-8	C-291, 4.1'	116	110										
880-33930-9	C-296, 4.1'	131 S1+	109										
880-33930-10	C-297, 4.1'	120	110										
880-33930-11	C-306, 4.1'	82	92										
880-33930-12	C-307, 4.1'	80	81										
880-33930-13	C-308, 4.1'	91	73										
LCS 880-63899/1-A	Lab Control Sample	109	110										
LCS 880-64197/1-A	Lab Control Sample	114	97										
LCSD 880-63899/2-A	Lab Control Sample Dup	113	110										
LCSD 880-64197/2-A	Lab Control Sample Dup	112	79										
MB 880-63899/5-A	Method Blank	72	97										
MB 880-63929/5-A	Method Blank	66 S1-	95										
MB 880-64197/5-A	Method Blank	68 S1-	87										

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)										
880-33930-1	C-271, 4.1'	136 S1+	116										
880-33930-2	C-274, 4.1'	163 S1+	138 S1+										
880-33930-3	C-275, 4.1'	137 S1+	117										
880-33930-4	C-278, 4.1'	142 S1+	122										
880-33930-5	C-279, 4.1'	167 S1+	143 S1+										
880-33930-6	C-283, 4.1'	119	106										
880-33930-7	C-289, 4.1'	117	104										
880-33930-8	C-291, 4.1'	140 S1+	122										
880-33930-8 MS	C-291, 4.1'	136 S1+	107										
880-33930-8 MSD	C-291, 4.1'	135 S1+	106										
880-33930-9	C-296, 4.1'	164 S1+	141 S1+										
880-33930-10	C-297, 4.1'	133 S1+	117										
880-33930-11	C-306, 4.1'	117	95										
880-33930-12	C-307, 4.1'	100	78										
880-33930-13	C-308, 4.1'	106	88										
LCS 880-63774/2-A	Lab Control Sample	126	135 S1+										
LCS 880-63901/2-A	Lab Control Sample	131 S1+	138 S1+										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-63937/2-A	Lab Control Sample	132 S1+	143 S1+								
LCSD 880-63774/3-A	Lab Control Sample Dup	106	114								
LCSD 880-63901/3-A	Lab Control Sample Dup	102	107								
LCSD 880-63937/3-A	Lab Control Sample Dup	107	114								
MB 880-63774/1-A	Method Blank	144 S1+	141 S1+								
MB 880-63901/1-A	Method Blank	137 S1+	129								
MB 880-63937/1-A	Method Blank	145 S1+	140 S1+								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63899/5-A
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 10:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 10:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 10:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/03/23 15:11	10/09/23 10:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/03/23 15:11	10/09/23 10:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/03/23 15:11	10/09/23 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*10/03/23 15:11*	*10/09/23 10:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/03/23 15:11*	*10/09/23 10:44*	*1*

Lab Sample ID: LCS 880-63899/1-A
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08863		mg/Kg		89	70 - 130		
Toluene			0.100	0.08775		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08855		mg/Kg		89	70 - 130		
m,p-Xylenes			0.200	0.1924		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09757		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-63899/2-A
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63899

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09974		mg/Kg		100	70 - 130	12	35
Toluene			0.100	0.09854		mg/Kg		99	70 - 130	12	35
Ethylbenzene			0.100	0.09969		mg/Kg		100	70 - 130	12	35
m,p-Xylenes			0.200	0.2169		mg/Kg		108	70 - 130	12	35
o-Xylene			0.100	0.1094		mg/Kg		109	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-33930-1 MS
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: C-271, 4.1'
Prep Type: Total/NA
Prep Batch: 63899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0298		0.0998	0.08356	F1	mg/Kg		54	70 - 130		
Toluene	0.304		0.0998	0.07616	F1	mg/Kg		-229	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

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

Lab Sample ID: 880-33930-1 MS
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: C-271, 4.1'
Prep Type: Total/NA
Prep Batch: 63899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0234		0.0998	0.07800	F1	mg/Kg		55	70 - 130
m,p-Xylenes	0.0714		0.200	0.1664	F1	mg/Kg		48	70 - 130
o-Xylene	0.0518		0.0998	0.08428	F1	mg/Kg		33	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-33930-1 MSD
Matrix: Solid
Analysis Batch: 64184

Client Sample ID: C-271, 4.1'
Prep Type: Total/NA
Prep Batch: 63899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0298		0.0990	0.08707	F1	mg/Kg		58	70 - 130	4	35
Toluene	0.304		0.0990	0.07687	F1	mg/Kg		-230	70 - 130	1	35
Ethylbenzene	0.0234		0.0990	0.07237	F1	mg/Kg		49	70 - 130	7	35
m,p-Xylenes	0.0714		0.198	0.1501	F1	mg/Kg		40	70 - 130	10	35
o-Xylene	0.0518		0.0990	0.07612	F1	mg/Kg		25	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-63929/5-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63929

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 09:20	10/09/23 12:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/23 09:20	10/09/23 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/23 09:20	10/09/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*10/04/23 09:20*	*10/09/23 12:21*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/04/23 09:20*	*10/09/23 12:21*	*1*

Lab Sample ID: MB 880-64197/5-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64197

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/09/23 09:34	10/10/23 01:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/09/23 09:34	10/10/23 01:45	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

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

Lab Sample ID: MB 880-64197/5-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64197

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/09/23 09:34	10/10/23 01:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*10/09/23 09:34*	*10/10/23 01:45*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/09/23 09:34*	*10/10/23 01:45*	*1*

Lab Sample ID: LCS 880-64197/1-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64197

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08681		mg/Kg		87	70 - 130		
Toluene			0.100	0.08481		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.07876		mg/Kg		79	70 - 130		
m,p-Xylenes			0.200	0.1616		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08910		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-64197/2-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64197

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08459		mg/Kg		85	70 - 130	3	35
Toluene			0.100	0.08333		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.08601		mg/Kg		86	70 - 130	9	35
m,p-Xylenes			0.200	0.1652		mg/Kg		83	70 - 130	2	35
o-Xylene			0.100	0.08903		mg/Kg		89	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

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

Lab Sample ID: MB 880-63774/1-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63774

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		10/02/23 15:44	10/06/23 07:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/02/23 15:44	10/06/23 07:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/02/23 15:44	10/06/23 07:52	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	144	S1+	70 - 130	10/02/23 15:44	10/06/23 07:52	1
o-Terphenyl (Surr)	141	S1+	70 - 130	10/02/23 15:44	10/06/23 07:52	1

Lab Sample ID: LCS 880-63774/2-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1027		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	135	S1+	70 - 130

Lab Sample ID: LCSD 880-63774/3-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	975.9		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	963.6		mg/Kg		96	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: MB 880-63901/1-A
Matrix: Solid
Analysis Batch: 63913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63901

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		10/03/23 16:26	10/04/23 07:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/03/23 16:26	10/04/23 07:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/03/23 16:26	10/04/23 07:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	137	S1+	70 - 130	10/03/23 16:26	10/04/23 07:45	1
o-Terphenyl (Surr)	129		70 - 130	10/03/23 16:26	10/04/23 07:45	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-63901/2-A
Matrix: Solid
Analysis Batch: 63913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63901

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	912.7		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	907.4		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-63901/3-A
Matrix: Solid
Analysis Batch: 63913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63901

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	897.4		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	894.8		mg/Kg		89	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-63937/1-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63937

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		10/04/23 09:49	10/06/23 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/23 09:49	10/06/23 19:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/23 09:49	10/06/23 19:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 19:14*	*1*
o-Terphenyl (Surr)	*140*	*S1+*	*70 - 130*	*10/04/23 09:49*	*10/06/23 19:14*	*1*

Lab Sample ID: LCS 880-63937/2-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63937

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	969.9		mg/Kg		97	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

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

Lab Sample ID: LCS 880-63937/2-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63937

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	132	S1+	70 - 130
o-Terphenyl (Surr)	143	S1+	70 - 130

Lab Sample ID: LCSD 880-63937/3-A
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63937

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	981.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	973.5		mg/Kg		97	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 880-33930-8 MS
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: C-291, 4.1'
Prep Type: Total/NA
Prep Batch: 63937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1228		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1061		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	136	S1+	70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 880-33930-8 MSD
Matrix: Solid
Analysis Batch: 64070

Client Sample ID: C-291, 4.1'
Prep Type: Total/NA
Prep Batch: 63937

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	<49.6	U	1010	1227		mg/Kg		120	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1060		mg/Kg		101	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	135	S1+	70 - 130
o-Terphenyl (Surr)	106		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63861/1-A
Matrix: Solid
Analysis Batch: 64044

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			10/06/23 04:37	1

Lab Sample ID: LCS 880-63861/2-A
Matrix: Solid
Analysis Batch: 64044

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.9		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-63861/3-A
Matrix: Solid
Analysis Batch: 64044

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	250.5		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-33930-1 MS
Matrix: Solid
Analysis Batch: 64044

Client Sample ID: C-271, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	985		250	1216		mg/Kg		92	90 - 110		

Lab Sample ID: 880-33930-1 MSD
Matrix: Solid
Analysis Batch: 64044

Client Sample ID: C-271, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	985		250	1209		mg/Kg		90	90 - 110	1	20

Lab Sample ID: MB 880-63961/1-A
Matrix: Solid
Analysis Batch: 64136

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			10/06/23 17:42	1

Lab Sample ID: LCS 880-63961/2-A
Matrix: Solid
Analysis Batch: 64136

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.1		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-63961/3-A
Matrix: Solid
Analysis Batch: 64136

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	238.3		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-33930-11 MS
Matrix: Solid
Analysis Batch: 64136

Client Sample ID: C-306, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	776	F1	253	969.4	F1	mg/Kg		77	90 - 110

Lab Sample ID: 880-33930-11 MSD
Matrix: Solid
Analysis Batch: 64136

Client Sample ID: C-306, 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	776	F1	253	971.4	F1	mg/Kg		77	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

GC VOA

Prep Batch: 63899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	5035	
880-33930-2	C-274, 4.1'	Total/NA	Solid	5035	
880-33930-3	C-275, 4.1'	Total/NA	Solid	5035	
880-33930-4	C-278, 4.1'	Total/NA	Solid	5035	
880-33930-11	C-306, 4.1'	Total/NA	Solid	5035	
880-33930-12	C-307, 4.1'	Total/NA	Solid	5035	
880-33930-13	C-308, 4.1'	Total/NA	Solid	5035	
MB 880-63899/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63899/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63899/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33930-1 MS	C-271, 4.1'	Total/NA	Solid	5035	
880-33930-1 MSD	C-271, 4.1'	Total/NA	Solid	5035	

Prep Batch: 63929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63929/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	8021B	63899
880-33930-2	C-274, 4.1'	Total/NA	Solid	8021B	63899
880-33930-3	C-275, 4.1'	Total/NA	Solid	8021B	63899
880-33930-4	C-278, 4.1'	Total/NA	Solid	8021B	63899
880-33930-11	C-306, 4.1'	Total/NA	Solid	8021B	63899
880-33930-12	C-307, 4.1'	Total/NA	Solid	8021B	63899
880-33930-13	C-308, 4.1'	Total/NA	Solid	8021B	63899
MB 880-63899/5-A	Method Blank	Total/NA	Solid	8021B	63899
LCS 880-63899/1-A	Lab Control Sample	Total/NA	Solid	8021B	63899
LCSD 880-63899/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63899
880-33930-1 MS	C-271, 4.1'	Total/NA	Solid	8021B	63899
880-33930-1 MSD	C-271, 4.1'	Total/NA	Solid	8021B	63899

Analysis Batch: 64194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-5	C-279, 4.1'	Total/NA	Solid	8021B	64197
880-33930-6	C-283, 4.1'	Total/NA	Solid	8021B	64197
880-33930-7	C-289, 4.1'	Total/NA	Solid	8021B	64197
880-33930-8	C-291, 4.1'	Total/NA	Solid	8021B	64197
880-33930-9	C-296, 4.1'	Total/NA	Solid	8021B	64197
880-33930-10	C-297, 4.1'	Total/NA	Solid	8021B	64197
MB 880-63929/5-A	Method Blank	Total/NA	Solid	8021B	63929
MB 880-64197/5-A	Method Blank	Total/NA	Solid	8021B	64197
LCS 880-64197/1-A	Lab Control Sample	Total/NA	Solid	8021B	64197
LCSD 880-64197/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64197

Prep Batch: 64197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-5	C-279, 4.1'	Total/NA	Solid	5035	
880-33930-6	C-283, 4.1'	Total/NA	Solid	5035	
880-33930-7	C-289, 4.1'	Total/NA	Solid	5035	
880-33930-8	C-291, 4.1'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

GC VOA (Continued)

Prep Batch: 64197 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-9	C-296, 4.1'	Total/NA	Solid	5035	
880-33930-10	C-297, 4.1'	Total/NA	Solid	5035	
MB 880-64197/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64197/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64197/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 64306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-2	C-274, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-3	C-275, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-4	C-278, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-5	C-279, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-6	C-283, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-7	C-289, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-8	C-291, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-9	C-296, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-10	C-297, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-11	C-306, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-12	C-307, 4.1'	Total/NA	Solid	Total BTEX	
880-33930-13	C-308, 4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-6	C-283, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-7	C-289, 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-63774/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63774/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 63901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-2	C-274, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-3	C-275, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-4	C-278, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-5	C-279, 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-63901/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63901/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63901/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	8015B NM	63901
880-33930-2	C-274, 4.1'	Total/NA	Solid	8015B NM	63901
880-33930-3	C-275, 4.1'	Total/NA	Solid	8015B NM	63901
880-33930-4	C-278, 4.1'	Total/NA	Solid	8015B NM	63901
880-33930-5	C-279, 4.1'	Total/NA	Solid	8015B NM	63901
MB 880-63901/1-A	Method Blank	Total/NA	Solid	8015B NM	63901

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

GC Semi VOA (Continued)

Analysis Batch: 63913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-63901/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63901
LCSD 880-63901/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63901

Prep Batch: 63937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-8	C-291, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-9	C-296, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-10	C-297, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-11	C-306, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-12	C-307, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-13	C-308, 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-63937/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63937/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33930-8 MS	C-291, 4.1'	Total/NA	Solid	8015NM Prep	
880-33930-8 MSD	C-291, 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Total/NA	Solid	8015 NM	
880-33930-2	C-274, 4.1'	Total/NA	Solid	8015 NM	
880-33930-3	C-275, 4.1'	Total/NA	Solid	8015 NM	
880-33930-4	C-278, 4.1'	Total/NA	Solid	8015 NM	
880-33930-5	C-279, 4.1'	Total/NA	Solid	8015 NM	
880-33930-6	C-283, 4.1'	Total/NA	Solid	8015 NM	
880-33930-7	C-289, 4.1'	Total/NA	Solid	8015 NM	
880-33930-8	C-291, 4.1'	Total/NA	Solid	8015 NM	
880-33930-9	C-296, 4.1'	Total/NA	Solid	8015 NM	
880-33930-10	C-297, 4.1'	Total/NA	Solid	8015 NM	
880-33930-11	C-306, 4.1'	Total/NA	Solid	8015 NM	
880-33930-12	C-307, 4.1'	Total/NA	Solid	8015 NM	
880-33930-13	C-308, 4.1'	Total/NA	Solid	8015 NM	

Analysis Batch: 64070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-6	C-283, 4.1'	Total/NA	Solid	8015B NM	63774
880-33930-7	C-289, 4.1'	Total/NA	Solid	8015B NM	63774
880-33930-8	C-291, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-9	C-296, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-10	C-297, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-11	C-306, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-12	C-307, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-13	C-308, 4.1'	Total/NA	Solid	8015B NM	63937
MB 880-63774/1-A	Method Blank	Total/NA	Solid	8015B NM	63774
MB 880-63937/1-A	Method Blank	Total/NA	Solid	8015B NM	63937
LCS 880-63774/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63774
LCS 880-63937/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63937
LCSD 880-63774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63774
LCSD 880-63937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63937
880-33930-8 MS	C-291, 4.1'	Total/NA	Solid	8015B NM	63937
880-33930-8 MSD	C-291, 4.1'	Total/NA	Solid	8015B NM	63937

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

HPLC/IC

Leach Batch: 63861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Soluble	Solid	DI Leach	
880-33930-2	C-274, 4.1'	Soluble	Solid	DI Leach	
880-33930-3	C-275, 4.1'	Soluble	Solid	DI Leach	
880-33930-4	C-278, 4.1'	Soluble	Solid	DI Leach	
880-33930-5	C-279, 4.1'	Soluble	Solid	DI Leach	
880-33930-6	C-283, 4.1'	Soluble	Solid	DI Leach	
880-33930-7	C-289, 4.1'	Soluble	Solid	DI Leach	
880-33930-8	C-291, 4.1'	Soluble	Solid	DI Leach	
880-33930-9	C-296, 4.1'	Soluble	Solid	DI Leach	
880-33930-10	C-297, 4.1'	Soluble	Solid	DI Leach	
MB 880-63861/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63861/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63861/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33930-1 MS	C-271, 4.1'	Soluble	Solid	DI Leach	
880-33930-1 MSD	C-271, 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 63961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-11	C-306, 4.1'	Soluble	Solid	DI Leach	
880-33930-12	C-307, 4.1'	Soluble	Solid	DI Leach	
880-33930-13	C-308, 4.1'	Soluble	Solid	DI Leach	
MB 880-63961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33930-11 MS	C-306, 4.1'	Soluble	Solid	DI Leach	
880-33930-11 MSD	C-306, 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 64044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-1	C-271, 4.1'	Soluble	Solid	300.0	63861
880-33930-2	C-274, 4.1'	Soluble	Solid	300.0	63861
880-33930-3	C-275, 4.1'	Soluble	Solid	300.0	63861
880-33930-4	C-278, 4.1'	Soluble	Solid	300.0	63861
880-33930-5	C-279, 4.1'	Soluble	Solid	300.0	63861
880-33930-6	C-283, 4.1'	Soluble	Solid	300.0	63861
880-33930-7	C-289, 4.1'	Soluble	Solid	300.0	63861
880-33930-8	C-291, 4.1'	Soluble	Solid	300.0	63861
880-33930-9	C-296, 4.1'	Soluble	Solid	300.0	63861
880-33930-10	C-297, 4.1'	Soluble	Solid	300.0	63861
MB 880-63861/1-A	Method Blank	Soluble	Solid	300.0	63861
LCS 880-63861/2-A	Lab Control Sample	Soluble	Solid	300.0	63861
LCSD 880-63861/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63861
880-33930-1 MS	C-271, 4.1'	Soluble	Solid	300.0	63861
880-33930-1 MSD	C-271, 4.1'	Soluble	Solid	300.0	63861

Analysis Batch: 64136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33930-11	C-306, 4.1'	Soluble	Solid	300.0	63961
880-33930-12	C-307, 4.1'	Soluble	Solid	300.0	63961
880-33930-13	C-308, 4.1'	Soluble	Solid	300.0	63961
MB 880-63961/1-A	Method Blank	Soluble	Solid	300.0	63961

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

HPLC/IC (Continued)

Analysis Batch: 64136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-63961/2-A	Lab Control Sample	Soluble	Solid	300.0	63961
LCSD 880-63961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63961
880-33930-11 MS	C-306, 4.1'	Soluble	Solid	300.0	63961
880-33930-11 MSD	C-306, 4.1'	Soluble	Solid	300.0	63961

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-271, 4.1'

Date Collected: 10/02/23 10:30
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-1

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 17:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/04/23 17:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63901	10/03/23 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63913	10/04/23 17:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 06:30	CH	EET MID

Client Sample ID: C-274, 4.1'

Date Collected: 10/02/23 10:35
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-2

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 11:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 11:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/04/23 17:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63901	10/03/23 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63913	10/04/23 17:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 06:50	CH	EET MID

Client Sample ID: C-275, 4.1'

Date Collected: 10/02/23 10:40
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-3

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 11:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 11:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/04/23 17:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63901	10/03/23 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63913	10/04/23 17:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 06:56	CH	EET MID

Client Sample ID: C-278, 4.1'

Date Collected: 10/02/23 10:45
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-4

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 12:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-278, 4.1'

Lab Sample ID: 880-33930-4
Matrix: Solid
Date Collected: 10/02/23 10:45
Date Received: 10/03/23 08:45

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			64012	10/04/23 18:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63901	10/03/23 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63913	10/04/23 18:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:16	CH	EET MID

Client Sample ID: C-279, 4.1'

Lab Sample ID: 880-33930-5
Matrix: Solid
Date Collected: 10/02/23 10:50
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 11:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 11:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/04/23 18:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63901	10/03/23 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63913	10/04/23 18:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:23	CH	EET MID

Client Sample ID: C-283, 4.1'

Lab Sample ID: 880-33930-6
Matrix: Solid
Date Collected: 10/02/23 10:55
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 11:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	63774	10/03/23 15:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:29	CH	EET MID

Client Sample ID: C-289, 4.1'

Lab Sample ID: 880-33930-7
Matrix: Solid
Date Collected: 10/02/23 11:00
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63774	10/03/23 15:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 18:30	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-289, 4.1'

Lab Sample ID: 880-33930-7
Matrix: Solid
Date Collected: 10/02/23 11:00
Date Received: 10/03/23 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:36	CH	EET MID

Client Sample ID: C-291, 4.1'

Lab Sample ID: 880-33930-8
Matrix: Solid
Date Collected: 10/02/23 11:05
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 12:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 20:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 20:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:43	CH	EET MID

Client Sample ID: C-296, 4.1'

Lab Sample ID: 880-33930-9
Matrix: Solid
Date Collected: 10/02/23 11:10
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 21:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 21:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:49	CH	EET MID

Client Sample ID: C-297, 4.1'

Lab Sample ID: 880-33930-10
Matrix: Solid
Date Collected: 10/02/23 11:15
Date Received: 10/03/23 08:45

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	64197	10/09/23 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/10/23 13:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 21:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63861	10/03/23 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			64044	10/06/23 07:56	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Client Sample ID: C-306, 4.1'

Date Collected: 10/02/23 11:20
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-11

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 15:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 22:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	63961	10/04/23 16:10	AG	EET MID
Soluble	Analysis	300.0		1			64136	10/06/23 18:02	SMC	EET MID

Client Sample ID: C-307, 4.1'

Date Collected: 10/02/23 11:25
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-12

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 15:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 22:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63961	10/04/23 16:10	AG	EET MID
Soluble	Analysis	300.0		1			64136	10/06/23 18:22	SMC	EET MID

Client Sample ID: C-308, 4.1'

Date Collected: 10/02/23 11:30
Date Received: 10/03/23 08:45

Lab Sample ID: 880-33930-13

Matrix: Solid

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	63899	10/03/23 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64184	10/09/23 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64306	10/09/23 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			64012	10/06/23 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63937	10/04/23 09:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64070	10/06/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63961	10/04/23 16:10	AG	EET MID
Soluble	Analysis	300.0		1			64136	10/06/23 18:29	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

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	T104704400-23-26	06-30-24

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. Job ID: 880-33930-1
Project/Site: Plihey Elder SDG: 22-0107-02

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: Plihey Elder

Job ID: 880-33930-1
SDG: 22-0107-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33930-1	C-271, 4.1'	Solid	10/02/23 10:30	10/03/23 08:45
880-33930-2	C-274, 4.1'	Solid	10/02/23 10:35	10/03/23 08:45
880-33930-3	C-275, 4.1'	Solid	10/02/23 10:40	10/03/23 08:45
880-33930-4	C-278, 4.1'	Solid	10/02/23 10:45	10/03/23 08:45
880-33930-5	C-279, 4.1'	Solid	10/02/23 10:50	10/03/23 08:45
880-33930-6	C-283, 4.1'	Solid	10/02/23 10:55	10/03/23 08:45
880-33930-7	C-289, 4.1'	Solid	10/02/23 11:00	10/03/23 08:45
880-33930-8	C-291, 4.1'	Solid	10/02/23 11:05	10/03/23 08:45
880-33930-9	C-296, 4.1'	Solid	10/02/23 11:10	10/03/23 08:45
880-33930-10	C-297, 4.1'	Solid	10/02/23 11:15	10/03/23 08:45
880-33930-11	C-306, 4.1'	Solid	10/02/23 11:20	10/03/23 08:45
880-33930-12	C-307, 4.1'	Solid	10/02/23 11:25	10/03/23 08:45
880-33930-13	C-308, 4.1'	Solid	10/02/23 11:30	10/03/23 08:45

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33930

No. 3177

CHAIN-OF-CUSTODY

10/10/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: Robert Nelson

DATE: 10-3-23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Pliney Elder

LAI PROJECT #: 22-0107-02 COLLECTOR: KG

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State: Mst/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | CYANIDE ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDE ☒ | ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TPH 1005	GASOLINE MOD 8015	DIESEL - MOD 8015	CHLORIDE	FIELD NOTES
C-271, 4.1'		10-2-23	1030	S	1				X		X	X	X	X	X	
C-274, 4.1'			1035													
C-275, 4.1'			1040													
C-278, 4.1'			1045													
C-279, 4.1'			1050													
C-283, 4.1'			1055													
C-289, 4.1'			1100													
C-291, 4.1'			1105													
C-296, 4.1'			1110													
C-297, 4.1'			1115													
C-306, 4.1'			1120													
C-307, 4.1'			1125													
C-308, 4.1'			1130													
TOTAL																

880-33930 Chain of Custody

RELINQUISHED BY (Signature) DATE/TIME 10/3/23 RECEIVED BY (Signature) 8:45

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 13/1.0 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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Received by OCD: 8/9/2024 11:39:35 AM

Released to Imaging: 9/30/2024 4:19:02 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-33930-1
SDG Number: 22-0107-02

Login Number: 33930
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	

Appendix E

Photographic Documentation



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the east.



Excavated area in the pasture, viewing to the east.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the east.



Excavated area in the pasture, viewing to the north.



Excavated area in the pasture, viewing to the northwest.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the north.



Excavated area on the pad, viewing to the northwest.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the north.



Excavated area in the pasture, viewing to the northwest.



Excavated area in the pasture, viewing to the north.



Excavated area in the pasture, viewing to the northwest.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the southwest.



Excavated are in the pasture viewing to the northwest.



Excavated area in the pasture, viewing to the northwest.



Excavated area in the pasture, viewing to the north.



Excavated area in the pasture, viewing to the northeast.



Excavated area in the pasture, viewing to the east.



Excavated area in the pasture, viewing to the southwest.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the southeast.



Excavated area in the pasture, viewing to the south.



Excavated area in the pasture, viewing to the west.



Excavated area in the pasture, viewing to the southwest.



Excavated area in the pasture, viewing to the east.



Excavated area on the pad, viewing to the north.



Excavated area on the pad, viewing to the northwest.



Excavated area on the pad, viewing to the southwest.



Excavated area on the pad, viewing to the northwest.



Excavated area on the pad, viewing to the northwest.



Excavated area on the pad, viewing to the northeast.



Excavated area on the pad, viewing to the southwest.



Production equipment on the pad within the spill area, viewing to the northwest.



Production equipment on the pad within the spill area, viewing to the southwest.



Excavated area on the pad, viewing to the west.



Excavated area on the pad, viewing to the west.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the east.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the south.



Production equipment on the pad within the spill area, viewing to the south.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the east.



Excavated area on the pad, viewing to the northeast.



Excavated area on the pad, viewing to the east.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the southwest.



Excavated area on the pad, viewing to the northeast.



Excavated area on the pad, viewing to the north.



Excavated area on the pad, viewing to the north.



Excavated area on the pad, viewing to the northeast.



Excavated area on the pad, viewing to the southeast.



Aerial image of the excavation, viewing to the east.



Aerial image of the excavation, viewing to the north.



Aerial image of excavated area in the pasture, viewing to the northeast.



Aerial image of the excavation, viewing to the west.



Aerial image of excavated area in the pasture, viewing to the south.



Aerial image of excavated area on the pad, viewing to the south.



Aerial image of excavated area on the pad, vertical view.



Aerial image of excavated area in the pasture, vertical view.



Aerial image of excavated area on the pad, viewing to the east.



Aerial image of the excavated area on the pad, viewing to the south.



Aerial image of excavated area on the pad, viewing to the north.



Aerial image of excavated area on the pad, viewing to the west.



Aerial image of excavated area in the pasture, viewing to the west.



Aerial image of excavated area on the pad, vertical view.



Aerial image of excavated area in the pasture, vertical view.



Excavated area on the pad, near well heads, viewing to the south.



Excavated area on the pad, viewing to the east.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the north.



Excavated area on the pad, viewing to the southeast.



Excavated area on the pad, viewing to the south.



Excavated area on the pad, viewing to the southwest.



Backfilled and seeded excavation in the pasture, viewing to the east.



Backfilled and seeded excavation in the pasture, viewing to the west.



Backfilled and seeded excavation in the pasture, viewing to the west.



Backfilled and seeded excavation in the pasture, viewing to the southwest.



Backfilled and seeded excavation in the pasture, viewing to the south.



Backfilled and seeded excavation in the pasture, viewing to the east.



Backfilled and seeded excavation in the pasture, viewing to the east.



Backfilled excavation on the pad, viewing to the north.



Backfilled excavation on the pad, viewing to the west.



Backfilled excavation on the pad, viewing to the south.



Backfilled excavation on the pad, viewing to the southwest.



Backfilled excavation on the pad, viewing to the southeast.



Backfilled excavation on the pad, viewing to the east.



Backfilled excavation on the pad, viewing to the northeast.



Backfilled excavation on the pad, viewing to the north.



Backfilled excavation on the pad, viewing to the north.



Backfilled excavation on the pad, viewing to the east.



Backfilled and seeded excavation on the pad, viewing to the northeast.

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 372230

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2232633250**
Incident Name	**NAPP2232633250 PLINY THE ELDER #215H @ 30-015-45558**
Incident Type	**Produced Water Release**
Incident Status	**Deferral Request Received**
Incident Well	**[30-015-45558] PLINY THE ELDER FEE #215H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLINY THE ELDER #215H
Date Release Discovered	11/21/2022
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	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	Cause: Overflow - Tank, Pit, Etc. | Frac Tank | Produced Water | Released: 612 BBL | Recovered: 0 BBL | Lost: 612 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

District I
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QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
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 Paragraph (4) of Subsection B of 19.15.29.8 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 Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Luke Kelly Title: Manager, Environmental Regulatory Compliance Email: lkelly@civiresources.com Date: 08/09/2024

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QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 300 and 500 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	26500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5250
GRO+DRO (EPA SW-846 Method 8015M)	4837
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/10/2023
On what date will (or did) the final sampling or liner inspection occur	10/02/2023
On what date will (or was) the remediation complete(d)	10/02/2023
What is the estimated surface area (in square feet) that will be reclaimed	53559
What is the estimated volume (in cubic yards) that will be reclaimed	10860
What is the estimated surface area (in square feet) that will be remediated	53559
What is the estimated volume (in cubic yards) that will be remediated	10860
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Luke Kelly Title: Manager, Environmental Regulatory Compliance Email: lkelly@civiresources.com Date: 08/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Well heads, pipeline risers, flowlines, electrical poles, and equipment. Removing this equipment would result in major facility deconstruction.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4970
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	800
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-015-45641 PLINY THE ELDER FEE #202H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**295672**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/02/2023**
What was the (estimated) number of samples that were to be gathered	**13**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 372230

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 372230
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of C-310, C-311, C-312, C-313, C-314 and C-316 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	9/30/2024